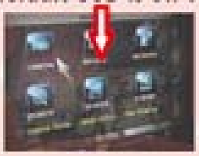
SEC-DVR404
SEC-DVR408
Digital Video Recorder



USER MANUAL

Attention:

The default OSD is on VGA output.



Note:

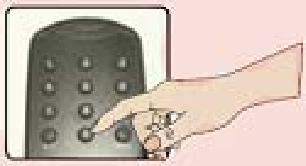
To change OSD Output default, please refer to user's manual. (Section 4.11 Main Menu Setup)

Lost OSD control menu on screen?

Solution 1

Remote control

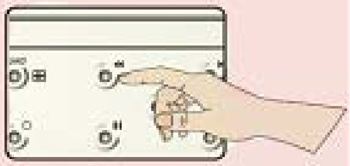
Press the button"0"



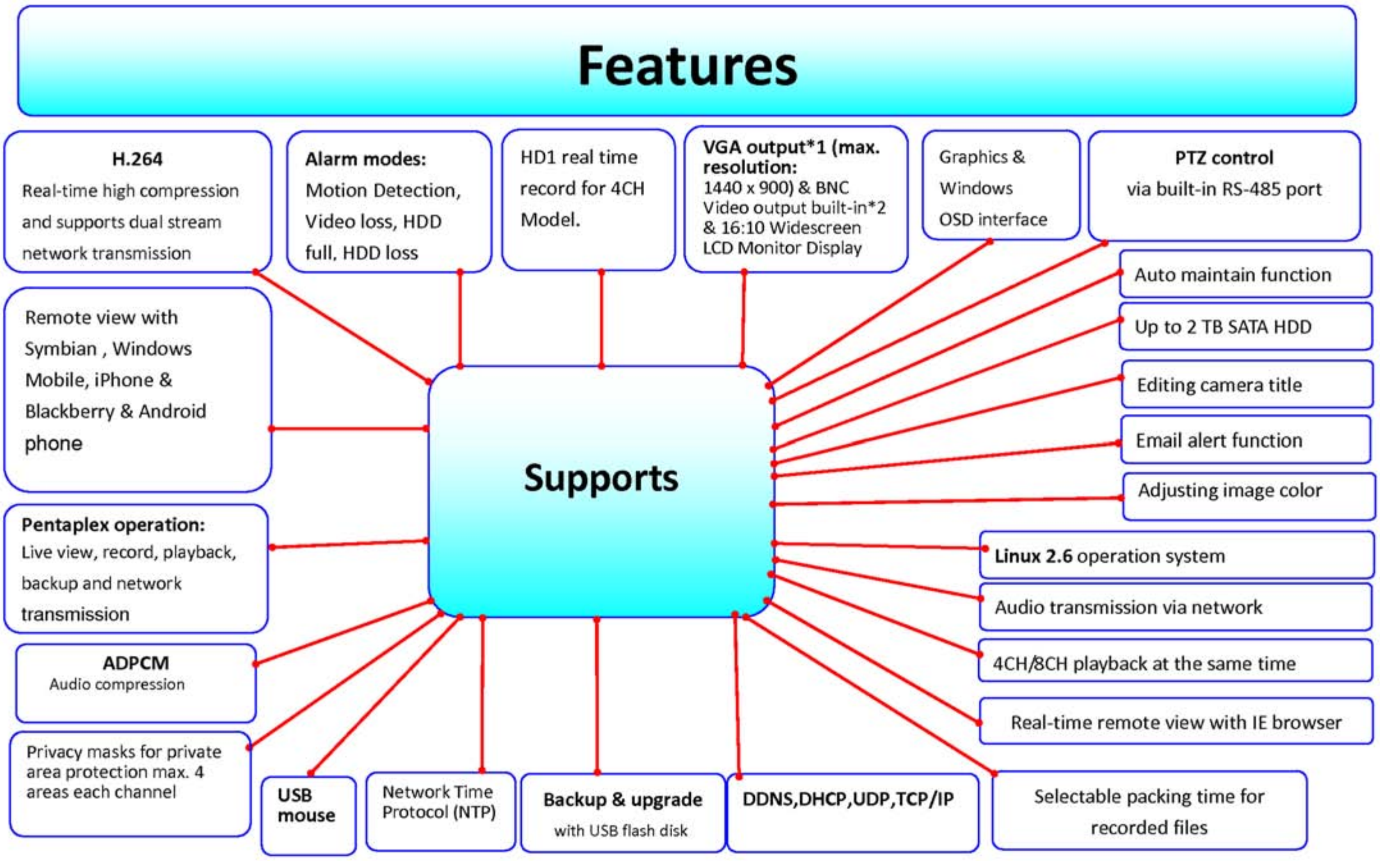
Solution 2

Front panel

Press"◂◂"button for 5 seconds.



Chapter 1. Features

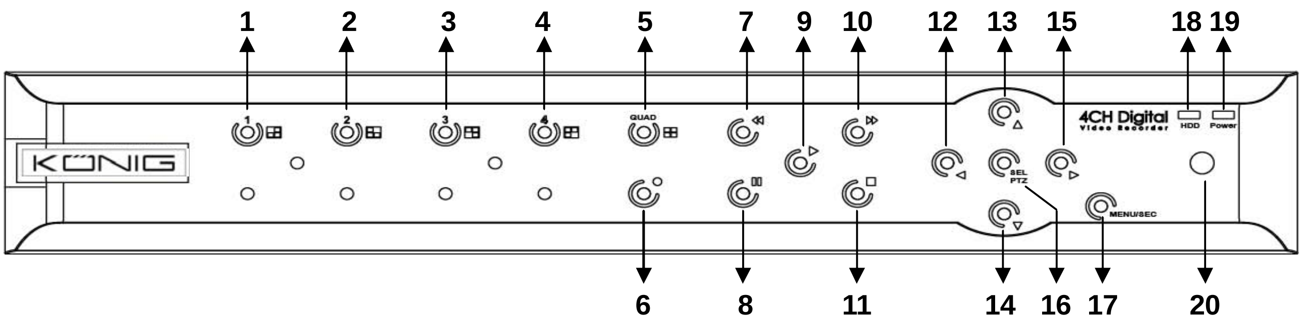




Chapter 2. Panel

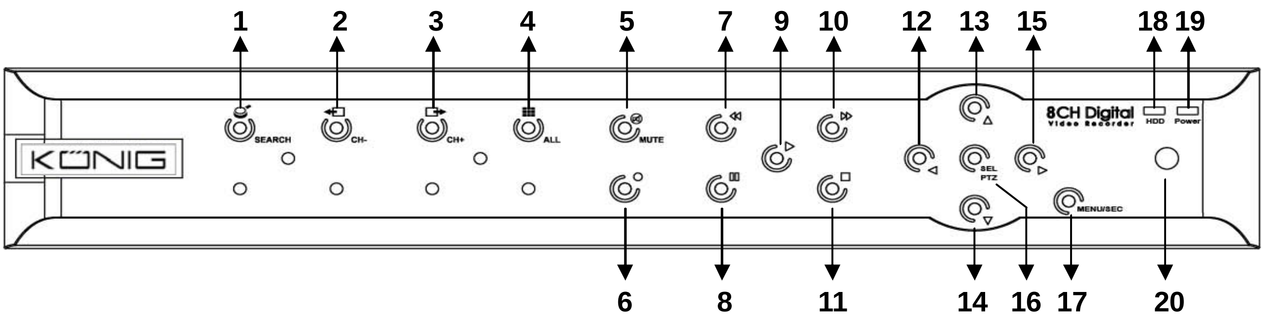
2.1. Front Panel

2.1.1. 4-CH Front Panel SEC-DVR404



No.	Key/Indicator	Marks	Functions
1	CH1		Display Channel 1 into full screen
2	CH2		Display Channel 2 into full screen
3	CH3		Display Channel 3 into full screen
4	CH4		Display Channel 4 into full screen
5	QUAD		For Quad display
6	REC		Start manual recording
7	REW	◀◀	Move leftward / Rewind**(it also can be used for switching OSD control panel)**
8	PAUSE	❚❚	Pause / play frame by frame
9	PLAY	▶	Enter into playback mode / Play button
10	FWD	▶▶	Move rightward / Play forward
11	STOP	■	Stop Playback / stop manual recording
12	LEFT	◀	Enter into main menu or exit menu
13	UP	▲	Move Up
14	DOWN	▼	Move Down
15	RIGHT	▶	Move rightward / Play forward
16	SEL/PTZ	SEL/PTZ	Enter system pop-up (short cut) menu bar/ edit button / enter PTZ mode
17	MENU/ESC	MENU/ESC	Enter/exit system menu
18	HDD indicator	HDD	H.D.D indicator
19	Power indicator	PWR	power supply indicator
20	IR Receiver		To receive signal from remote controller

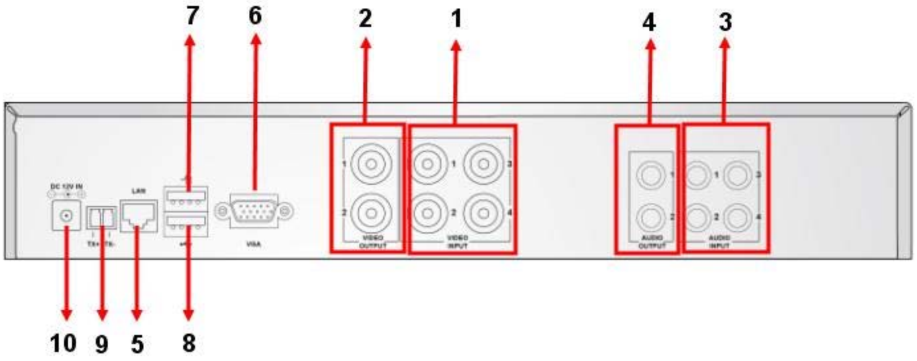
2.1.2. 8-CH Front Panel SEC-DVR408



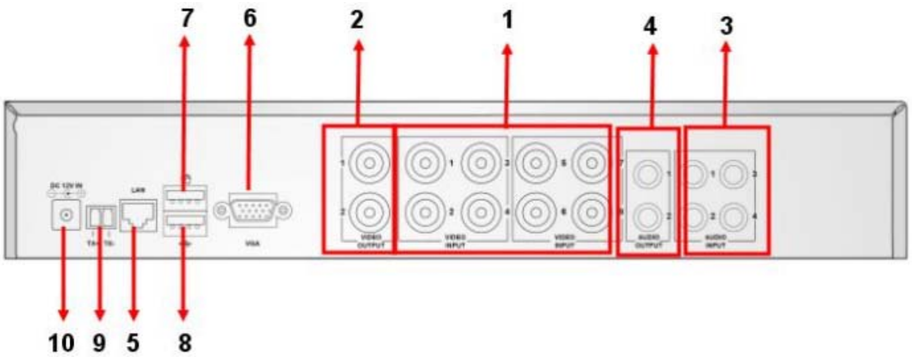
No.	Key/Indicator	Marks	Functions
1	**SEARCH**		Enter system pop-up (short cut) menu bar
2	**CH-**		Switch to previous channel
3	**CH+**		Switch to next channel
4	**ALL CH**		Switch to 4/8 pictures display
5	**MUTE**		Audio mute key
6	**REC**	●	Start manual recording
7	**REW**	◀◀	Move leftward / Rewind**(it also can be used for switching OSD control panel)**
8	**PAUSE**	❚❚	Pause / play frame by frame
9	**PLAY**	▶	Enter into playback mode / Play button
10	**FWD**	▶▶	Move rightward / Play forward
11	**STOP**	■	Stop Playback / stop manual recording
12	**LEFT**	◀	Move leftward / Rewind
13	**UP**	▲	Enter into main menu or exit menu
14	**Down**	▼	Move down
15	**RIGHT**	▶	Move rightward / Play forward
16	**SEL/PTZ**	**SEL/PTZ**	Enter system pop-up menu bar / edit button / enter PTZ mode
17	**MENU/ESC**	**MENU/ESC**	Enter/exit system menu
18	**HDD indicator**	**HDD**	Continuous flicker indicates HDD is being accessed
19	**Power indicator**	**PWR**	Green light indicates power supply status
20	**IR Receiver**		To receive signal from remote controller

2.2. Rear Panel

SEC-DVR404

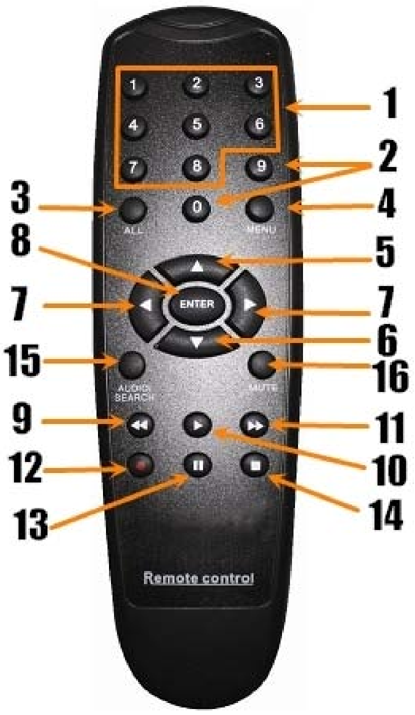


SEC-DVR408



No.	Connector	Functions
1.	Video input	4CH:Connect CH1-4 video input device（ BNC ） 8CH:Connect CH1-8 video input device（ BNC ）
2.	Video output	Connect monitor output (BNC)
3.	Audio Input	4CH DVR: 4CH audio input (RCA ） 8CH DVR: 4CH audio input (RCA ）
4.	Audio Output	4CH DVR: 2CH output(RCA) 8CH DVR: 2CH output(RCA)
5.	Ethernet	Connect LAN, Ethernet (RJ45)
6.	VGA output	Connect to VGA monitor
7.	USB Mouse	Connect USB mouse
8.	USB device	Connect USB device (Flash Drive, Hard Drive and Recorder etc)
9.	RS-485	RS485 interface
10.	Power	Connect power supply - DC12V 3A

2.3. Remote Control



1	1-8	Channel Select 1-8 ; Numeric key
2	9、0	Numeric Key **(The numeric key "0" can be used for switching OSD control panel)**
3	**ALL**	Display all Channel
4	**Menu**	Enter/Exit Main Menu
5	▯	Up Key
6	◀ ▯ ▶	Down Key
7		**Left / Right Key**
8	**SEL**	Select Key/ Edit Key
9	◀◀	Rewind key
10	▶	Play Key, Enter to recording search menu
11	▶▶	Forward Key
12	●	Manual Recording
13	❙❙	Pause / Frame Play
14	▯	Stop manual recording; Stop Playback
15	**Audio**	Undefined
16	**Mute**	Undefined

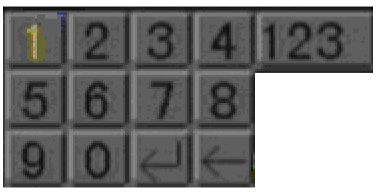
Mouse Operation

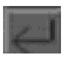
You can use a mouse instead of front panel keys or remote control to navigate the operation of your DVR

Left click	In OSD menu, click left button to select & edit
Right click	In live display mode, clicking right key will display pop-up menu bar
	In Main menu or sub menu mode, clicking right key will exit current menu.
Double-click Left button of Mouse	double-click the live image of any channel for full screen display; by double-clicking again, the display will return to display all cameras
Use mouse to drag a line	On motion mode, this function will select motion area; On [Color Setup] menu mode, it will adjust color control bar and volume control bar.

Virtual Keyboard (Mouse)

When using the mouse, you can input certain values using the onscreen virtual keyboard. You will need to use the Virtual Keyboard when entering your User ID and Password. to use the Virtual Keyboard:



1. Click on an option or field, such as the User ID and Password fields.
2. Click **0~9** to key-in the desired digit.
3. Click  to switch between numerals, upper and lowercase letters, and other characters (only for certain options)
4. Click  to Backspace/Delete.
   NOTE: The buttons will turn from orange to white when you select the button with the mouse cursor.
5. Click  to enter/confirm and close the Virtual Keyboard.

Virtual Keyboard (Remote Control)

*Press "SEL" button to enter the column.

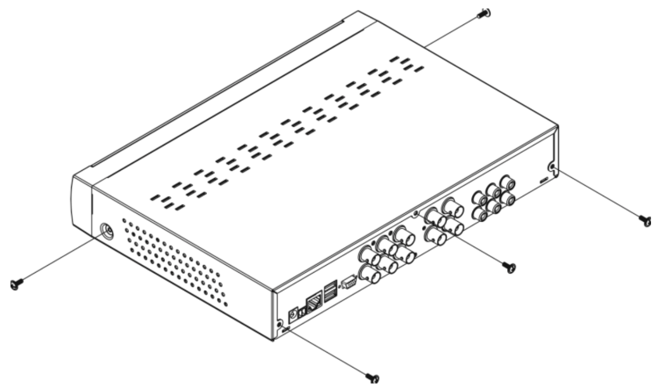
*Press "SEL" button again to call out the virtual keyboard.

Chapter 3. Installation

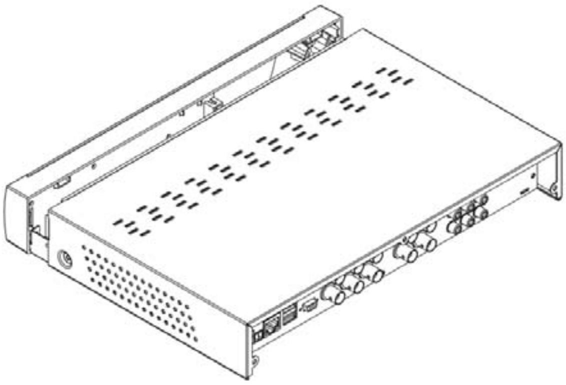
3.1. Installation(Hard Drive)

DO NOT install or remove hard drive while DVR is running!

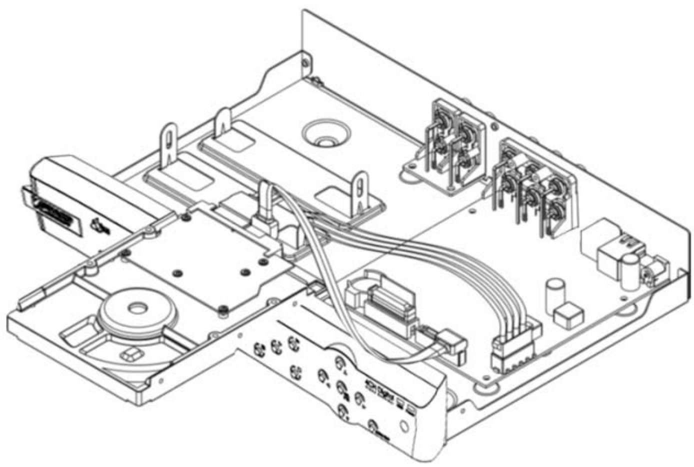
Step 1. Loosen the screws in the left and right sides.



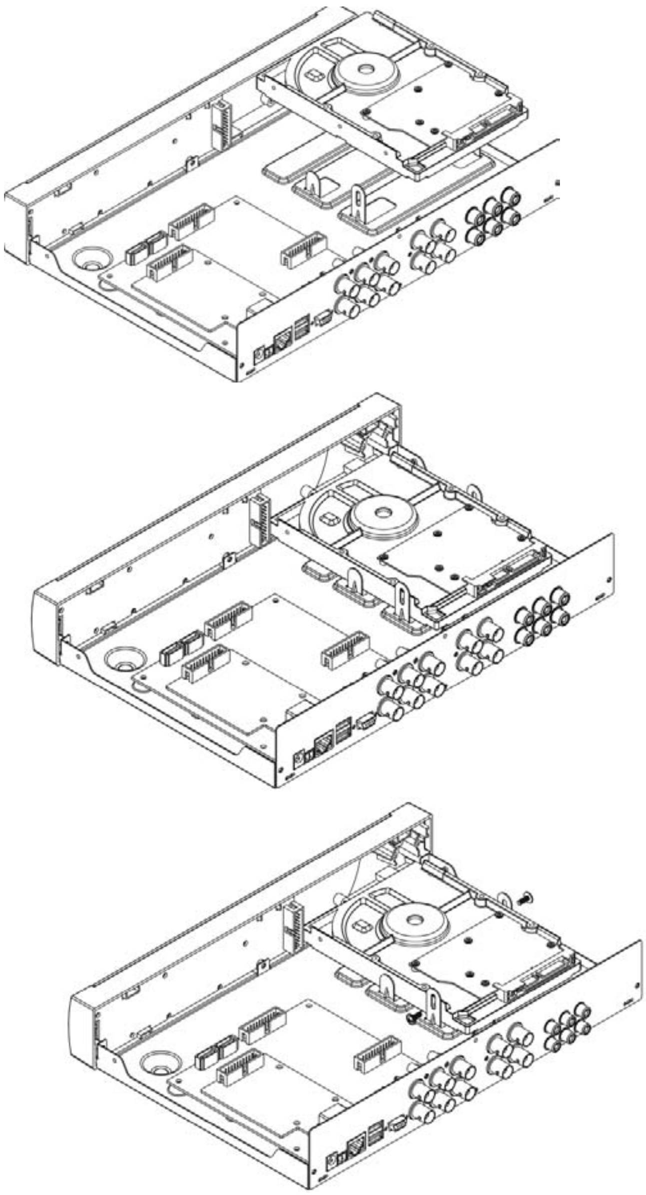
Step 2. Remove the cover by pushing back and lift it up, slightly.



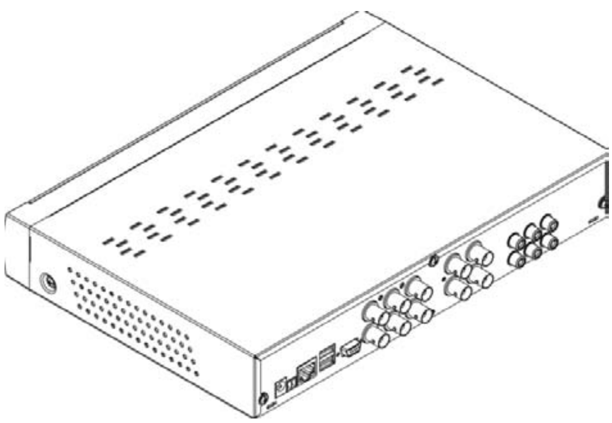
Step 3. Connect SATA to H.D.D. (data cord and power cable).



Step 4. Install HDD on the bracket, fixed with screws firmly.



Step 5. Check if the connectors are properly connected and there is no loosen cables, and then install cover as well as screws .



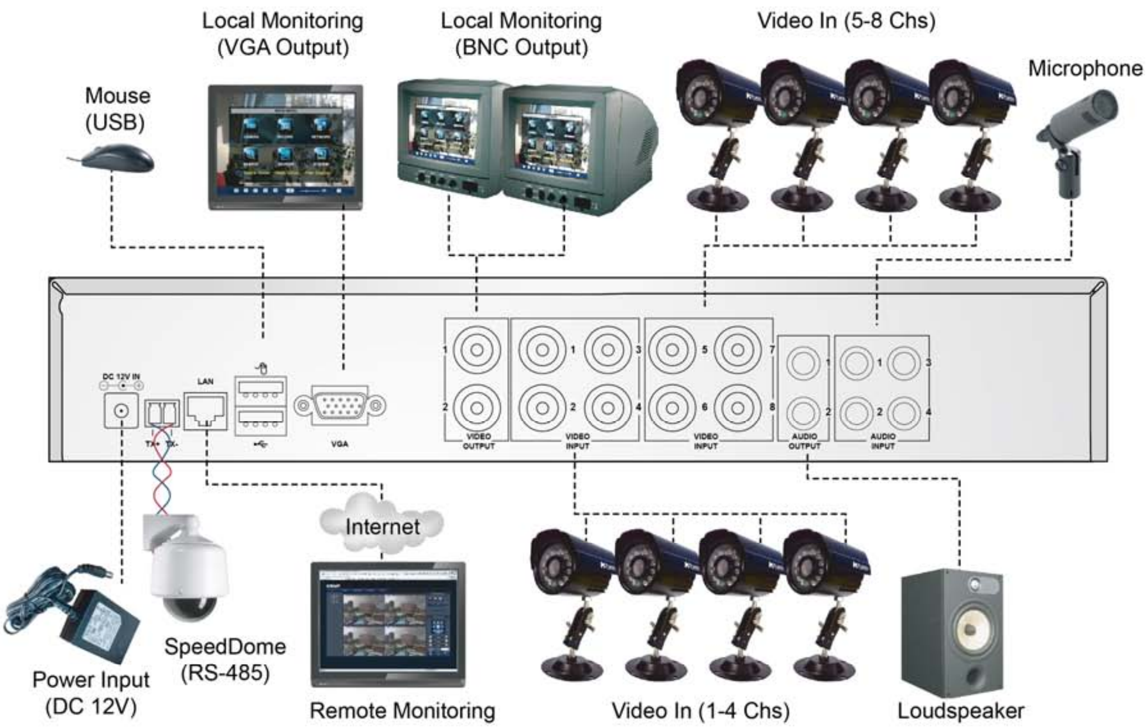
3.2. Camera and Monitor Connection

Connect camera cable to video input of DVR, and from video output of DVR to Monitor via BNC connector or if the camera is a PTZ speed dome, you could connect RS485 connector.

3.3. Power Supply Connection

Please only use the power adapter supplied with the DVR.

3.4. Connection Diagram:

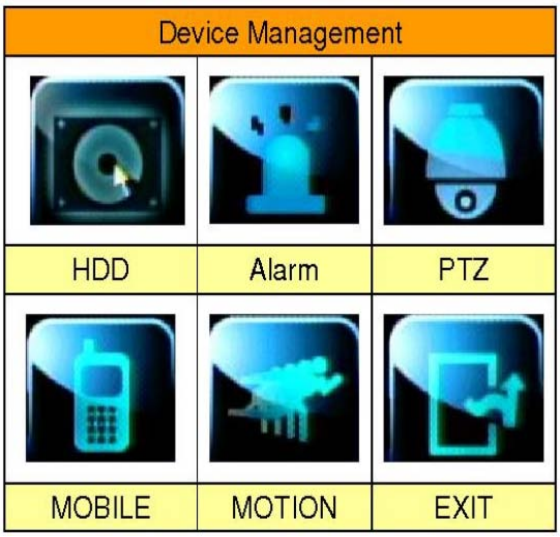


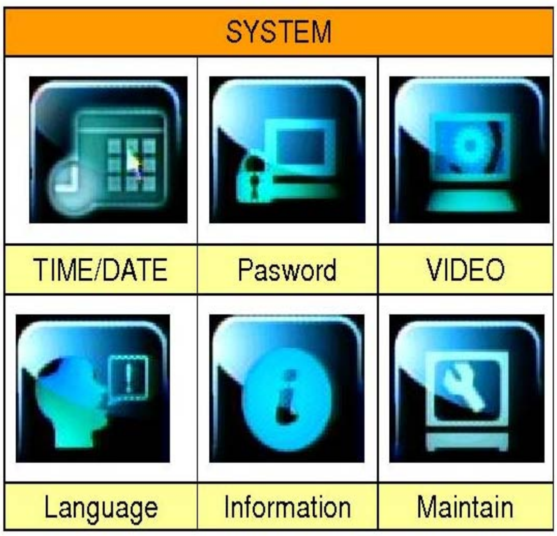
Chapter 4. OSD Display

4.1. Structure of OSD Display SEC-DVR404





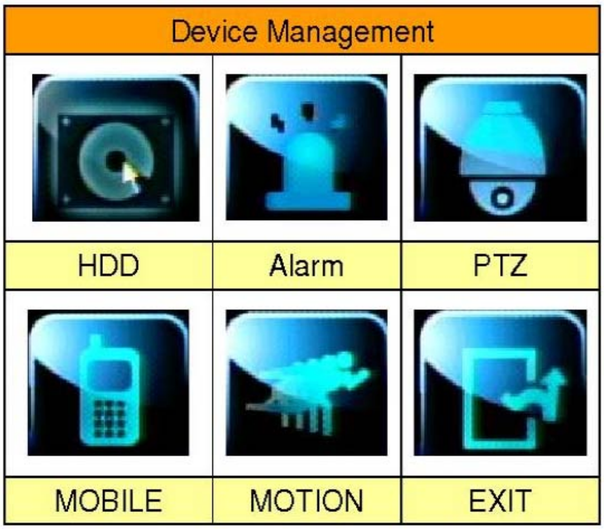


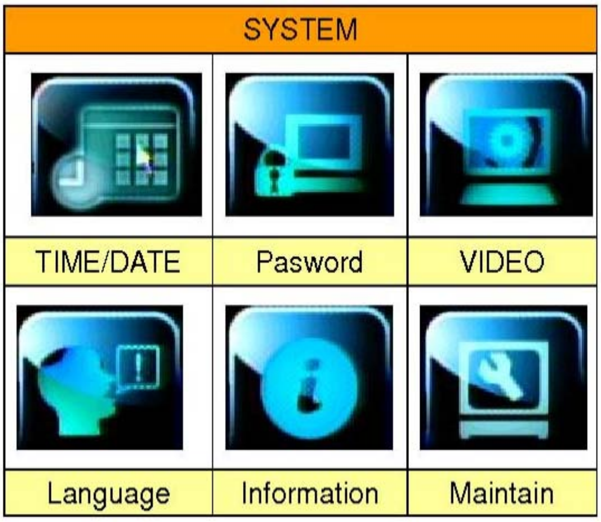


4.1.1. Structure of OSD Display SEC-DVR408









4.2. The Symbol of Main Screen (Recording Alarm)



The symbol will display in main screen:

Symbol/icon	Functions
M	Motion
H	HDD loss, HDD space full
R	The video is recording
Video Loss	Video Loss

When DVR is in recording mode, [R] icon or [M] icon will appear on the screen. But when there is [M] icons on the screen it indicates a motion alarm was triggered. When [H] icon appears on the screen, that mean a hard drive alarm has occurred.

4.3. Pop-out menu options

4.3.1. Menu Lock

For your system security, the system has a special function to protect your OSD operation.

Step 1. Enable Password and key-in password/user name from system.



Step2. Click" **Lock**" button, and then the OSD was locked.

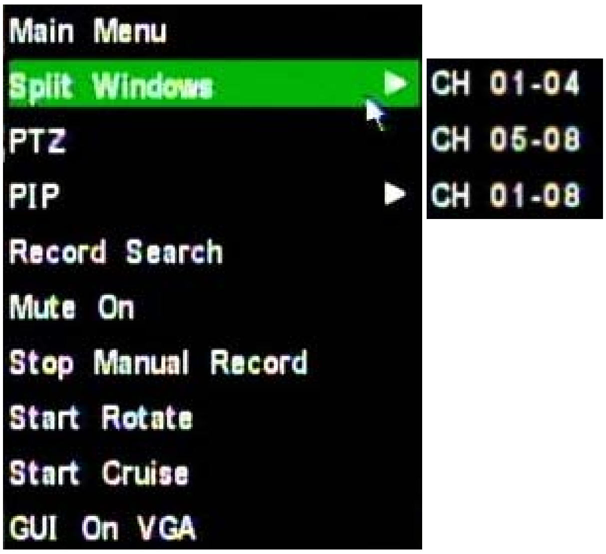




4.3.2. Split Windows (For 8 CH Only)

There are 3 modes of split windows:

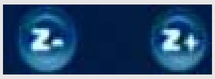
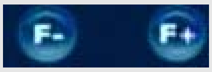
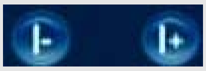
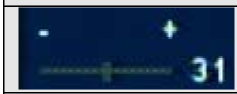
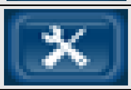
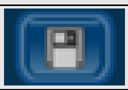
1. **CH 1-4**
2. **CH 5-8**
3. **CH 1-8**



4.3.3. PTZ Control





All Functions		
	**Pointer** **Auto Pan**	To select the direction of PTZ. The middle circle is for auto pan of PTZ.
	**Zoom in/zoom out**	
	**Focus**	
	**Iris**	
	**Speed**	
	**Channel select**	For selecting the channels of PTZ camera.
	**EXIT**	To back to previous page or exit.
	**GOTO PRESET POINT**	Allow you to go to a specific preset point.
	**SET**	Allow you set a set of specific preset points of a PTZ camera. Also it can Adjust the camera in a fix point.
Note: Up to 255 preset bits for the DVR can be stored. However, actual preset quantity differs depending on PTZ performance.		
	**CLEAR**	Allow you to delete the selected preset.
	**SAVE**	Save the changed and the preset point.
Total	Set up pre-set bit quantity	
Pre	It indicates the starting point cruised. System default point is 01.	
STP	Sets the stop time at each point	

If you would like to use the function of PTZ herein , you have to set the parameter of PTZ first.

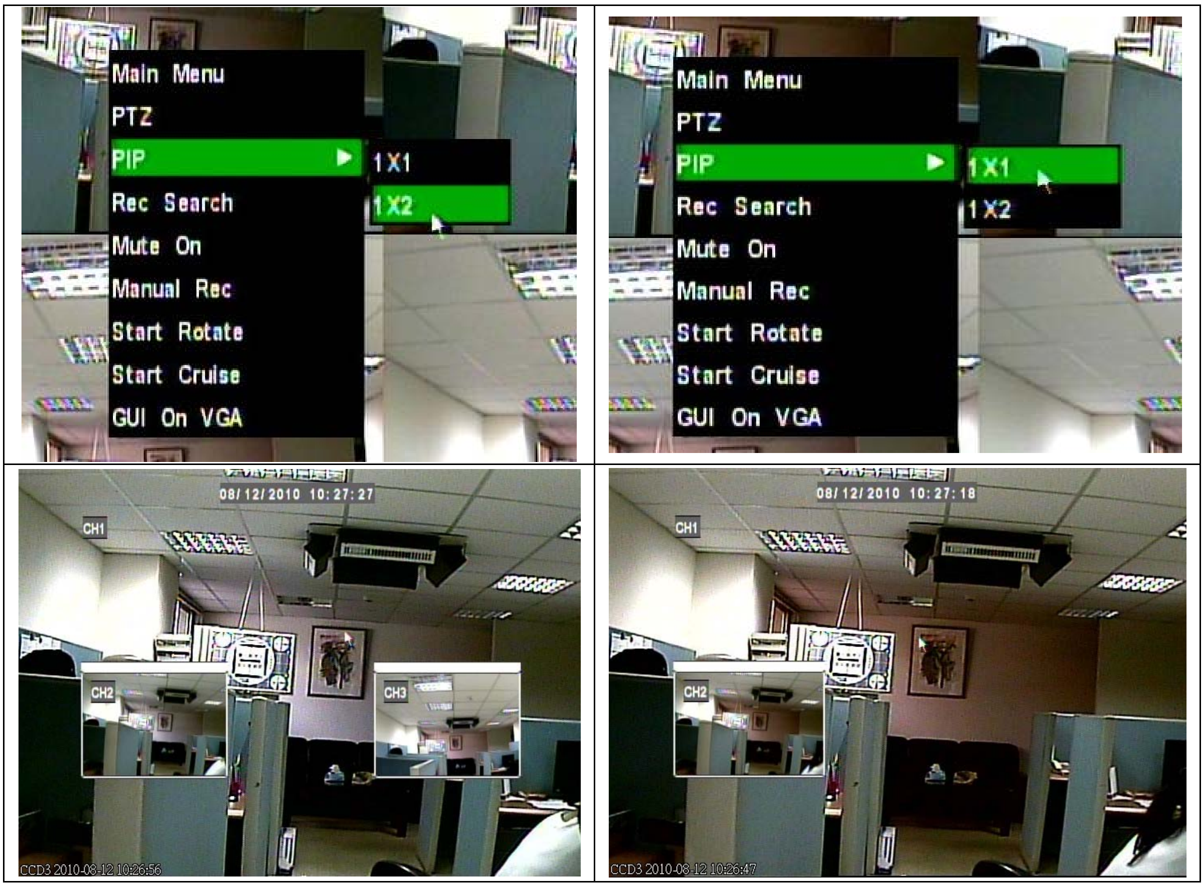
For more information of PTZ , please refer to section 4.9.

4.3.3.1. Cruise(PTZ)

This function allows to start cruise of PTZ camera.



4.3.4. PIP Mode



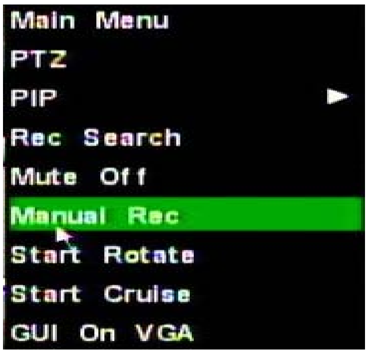
4.3.5. Search

You could enter into **[Record Search]** menu from Pop-up menu conveniently and quickly and search/playback the record histories.



For more information of record search , please refer to section 4.7.

4.3.6. Record (Manual)



START MANUAL RECORD



STOP MANUAL RECORD

4.3.7. Start Rotate(SEQ/CHANNEL AUTO SWITCHING)

This function allows you to switch channels, automatically.



4.3.8. GUI output selection

This function allows you to select the GUI output between 2 monitors (VGA or BNC).



4.4. Main Menu Setup (Display)

You can set up whether each channel can be previewed or not under Live display and/or record mode, enable live time or not under live screen and set up record time or not on the record history.
Also, you can key-in the title for each channel.
You can adjust image brightness, saturation, contrast and hue parameters of each channel after entering into **[Color]** menu.

Step 1. Click the video screen or Press **“Menu”** button on the front panel, the main menu will display.

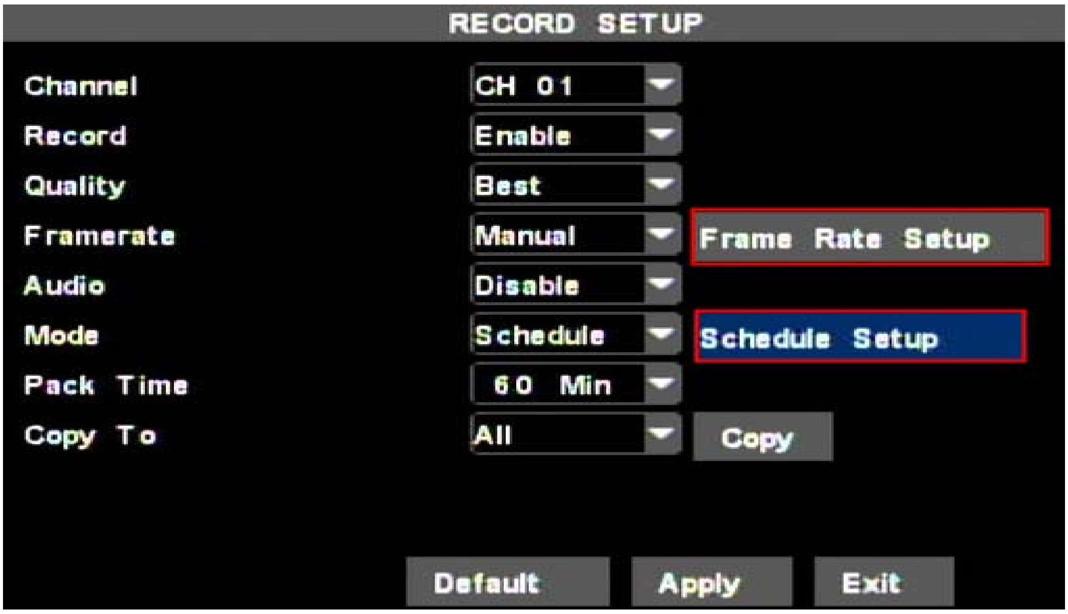


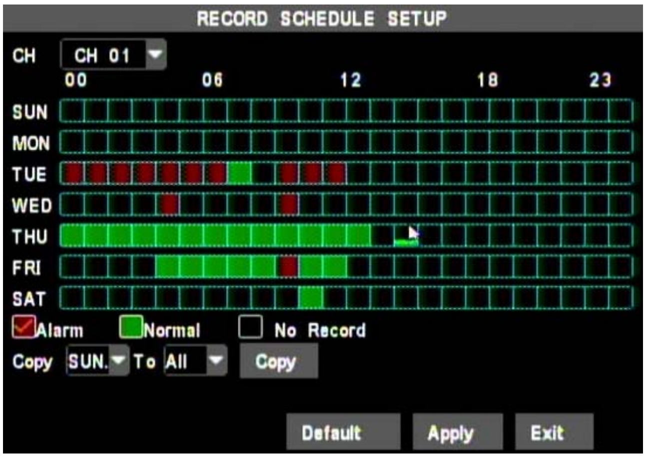
Press ▲, ▼, ◄, ► keys on front panel to move the cursor, then press “**SEL**” key to enter selected item.
Or **left click mouse** to select and enter menu.
Press “**ESC”** key or **right click mouse,** to return to previous window.

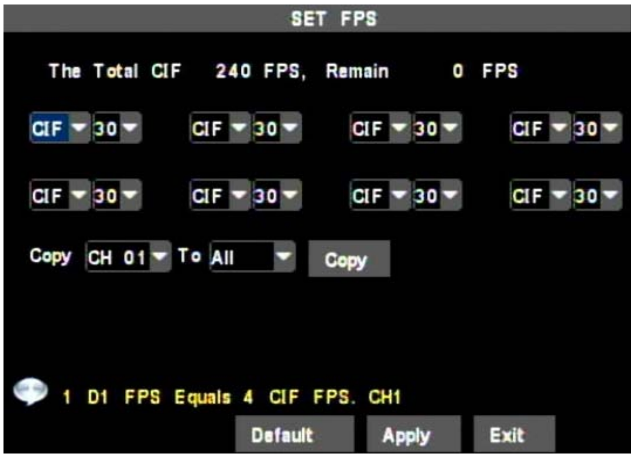
4.5. Main Menu Setup (Record)



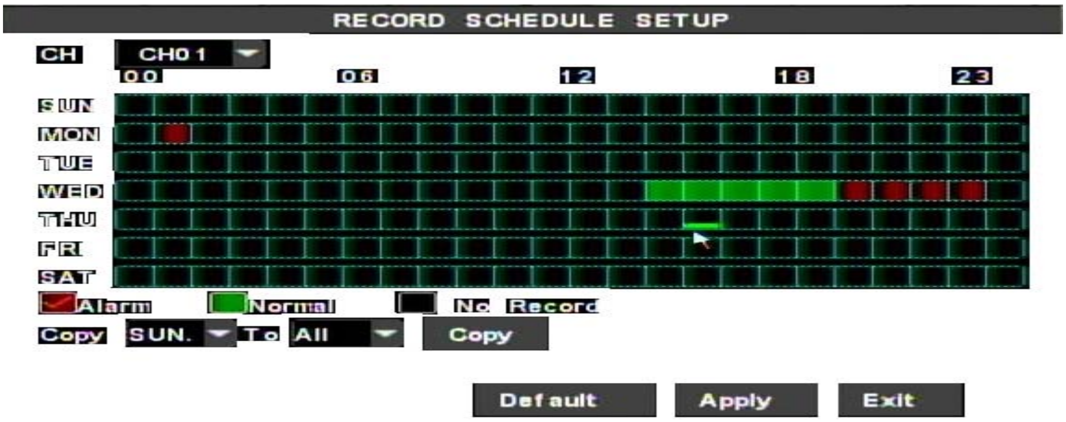








All Functions	
Record setup	Allows you set up record status (Enable/Disable) of each channel.
Quality	Included 3 options – Best, Good and Normal.
Frame rate setup	Included 2 options – **Fixed and Manua**l. Click on 【**Manual**】 option and then click **[Frame rate setup]** button, you are able to set the frame rate for each channel.
Audio	Allows you turn audio on/off.
Mode	Allow you select record modes, including Always and Scheduled. To record 24 hours a day set the **[Mode]** to Always. To record on motion or a set schedule, select the **[Schedule]** option.
Pack time	The time for recorded video which was packed in 1 video file. **(15, 30, 45 and 60 min)**
Copy	Copy the setting to all channels or one specified channel.

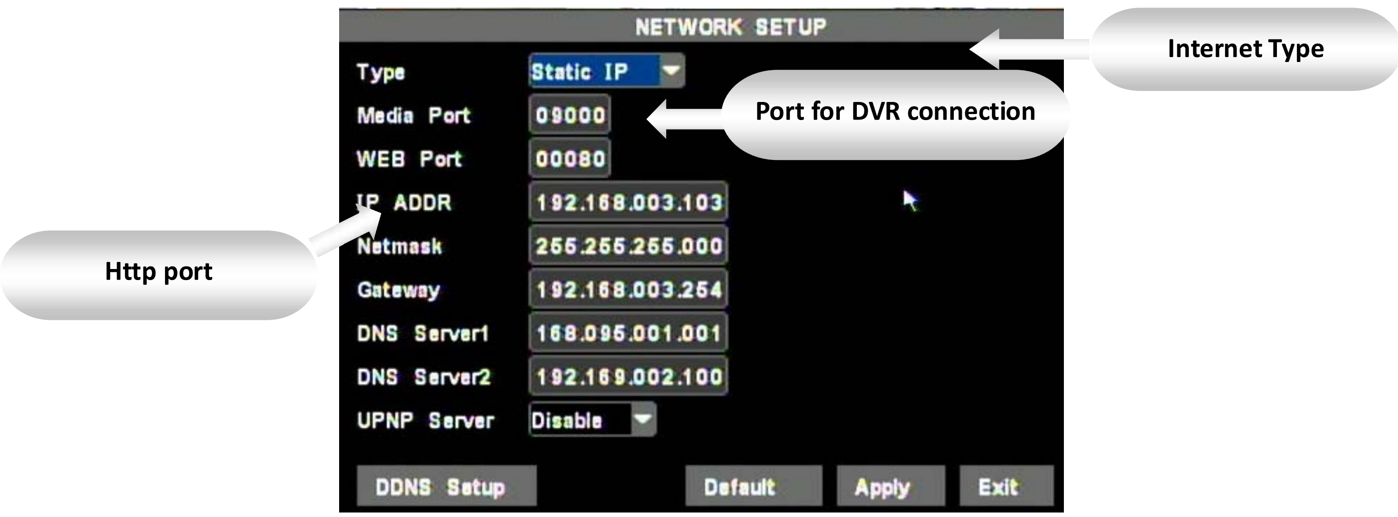
RECORD SCHEDULE SETUP	
	
	To select channels.
	Use mouse to click the time & date which you would like to set, there's 3 types of recording : Alarm record: Red / Normal Record: green /No record: clear
	Copy the setting to all channels or one specified channel.
	Click "Apply" button to save changed.

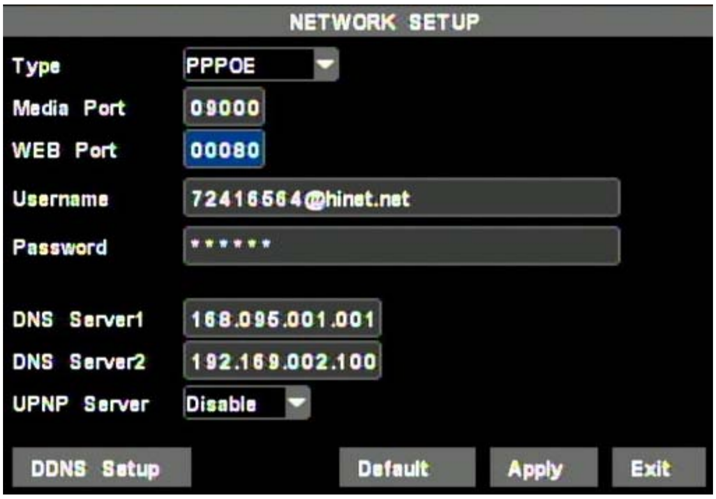
Frame rate setup	
	
In this option, you can set the recording frame rate, if the frame rate which you set over system limitation, the system will inform you that your frame rate can't be accepted.	
	Copy the setting to all channels or one specified channel.
The information as below:	
	

4.6. Main Menu Setup (Network)

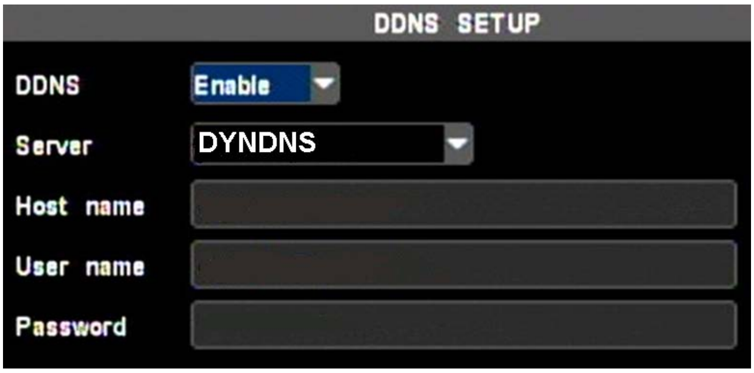












Description:
Because of DVR can support viewing the video via network remotely, hence you can control the DVR remotely, including, monitoring, recording, playing back or making backup.

There are 4 types of network setup in DVR:

All Functions	
DHCP	The Dynamic Host Configuration Protocol (DHCP) is an auto configuration protocol used on IP networks.
PPPoE	The Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames.
Static IP	It was defined as “permanent IP address” which remains in a single computer over an extended period of time.
DDNS(Dynamic DNS)	Dynamic DNS is a method, protocol, or network service that provides the capability for a networked device, such as a router or computer system using the Internet Protocol Suite, to notify a domain name server to change, in real time, the active DNS configuration of its configured hostnames, addresses or other information stored in DNS.

4.7. Main Menu Setup (Search/Playback)

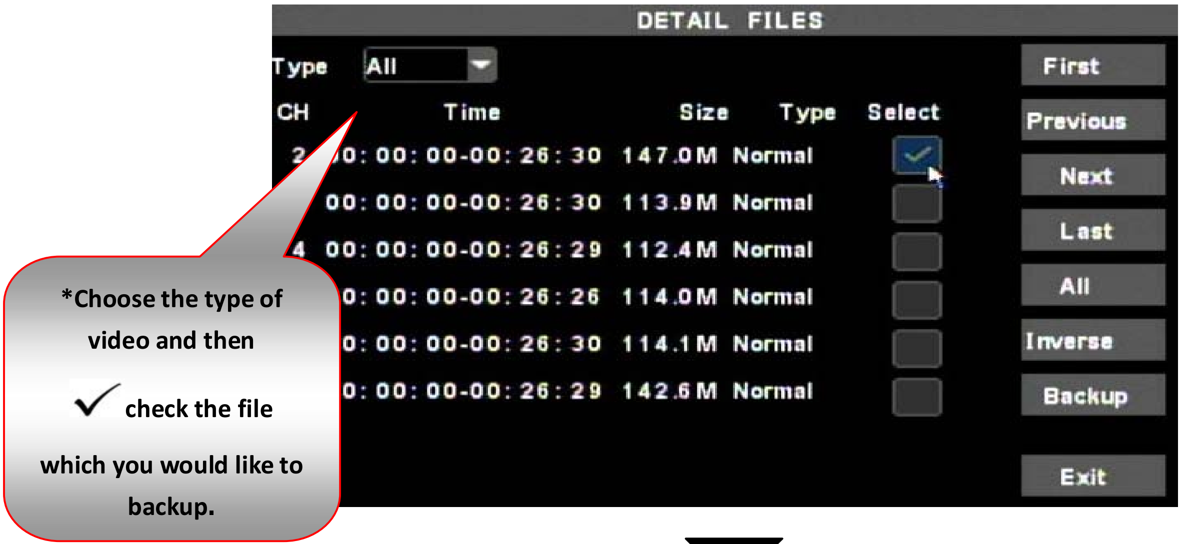


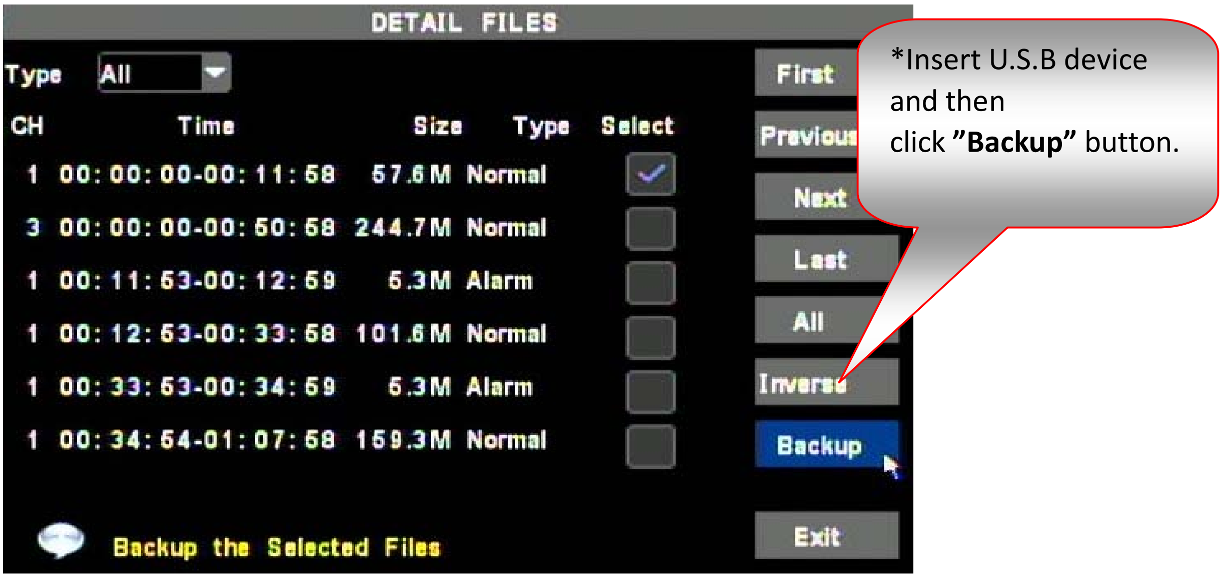
*Click **“Search”** button first.
*Double click the specified date & time which you need to playback
and then click **”playback”** button.
*Click**”Detail Files”**

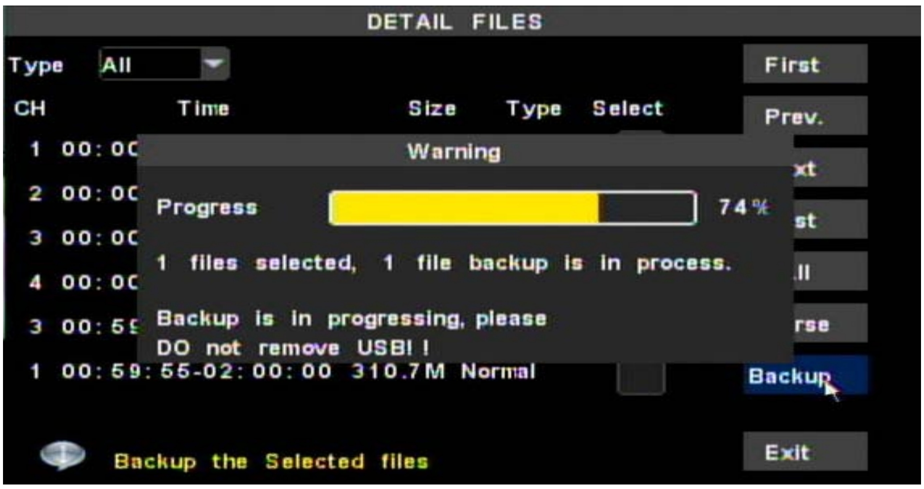




*Playback image


DETAIL FILES
Type All
CH Time Size Type Select
First
Previous
Next
Last
All
Inverse
Backup
Exit
*Choose the type of video and then
check the file which you would like to backup.


DETAIL FILES
Type All
CH Time Size Type Select
1 00:00:00-00:11:58 57.6M Normal
3 00:00:00-00:50:58 244.7M Normal
1 00:11:53-00:12:59 5.3M Alarm
1 00:12:53-00:33:58 101.6M Normal
1 00:33:53-00:34:59 5.3M Alarm
1 00:34:54-01:07:58 159.3M Normal
Backup the Selected Files
*Insert U.S.B device and then click **"Backup"** button.


DETAIL FILES
Warning
Progress 74%
1 files selected, 1 file backup is in process.
Backup is in progressing, please DO not remove USB! !
Backup the Selected files

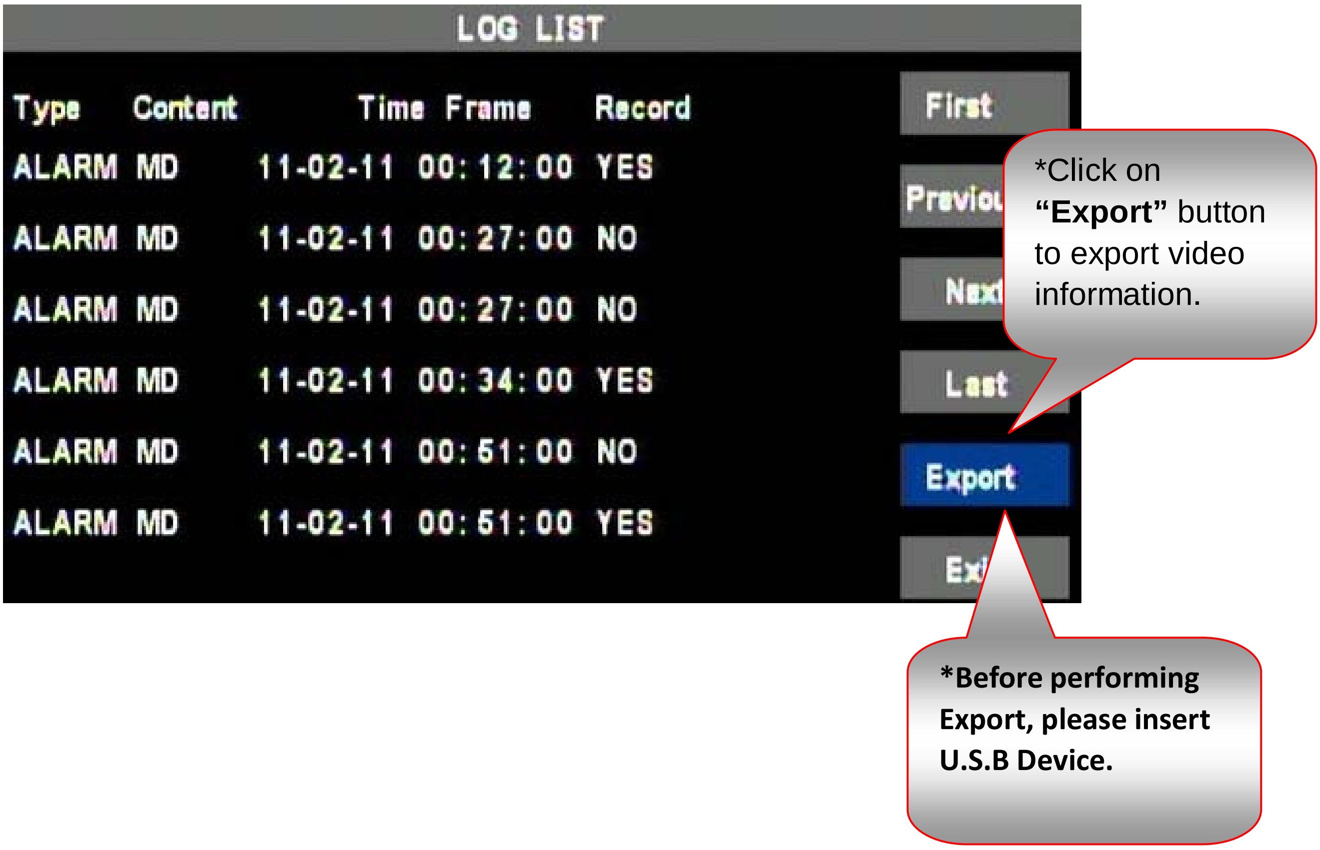
4.7.1. Main Menu Setup (Search/Log/Export)

***You can export the video information from log (by text).**






LOG SEARCH
Log Type
All
Start Time
02/11/2011
End Time
02/11/2011
*Click on **"search"** button and specified the log type in order to search the video information.
Search
Exit


LOG LIST
Type Content Time Frame Record
ALARM MD 11-02-11 00:12:00 YES
ALARM MD 11-02-11 00:27:00 NO
ALARM MD 11-02-11 00:27:00 NO
ALARM MD 11-02-11 00:34:00 YES
ALARM MD 11-02-11 00:51:00 NO
ALARM MD 11-02-11 00:51:00 YES
First
Last
Export
*Click on **"Export"** button to export video information.
***Before performing Export, please insert U.S.B Device.**

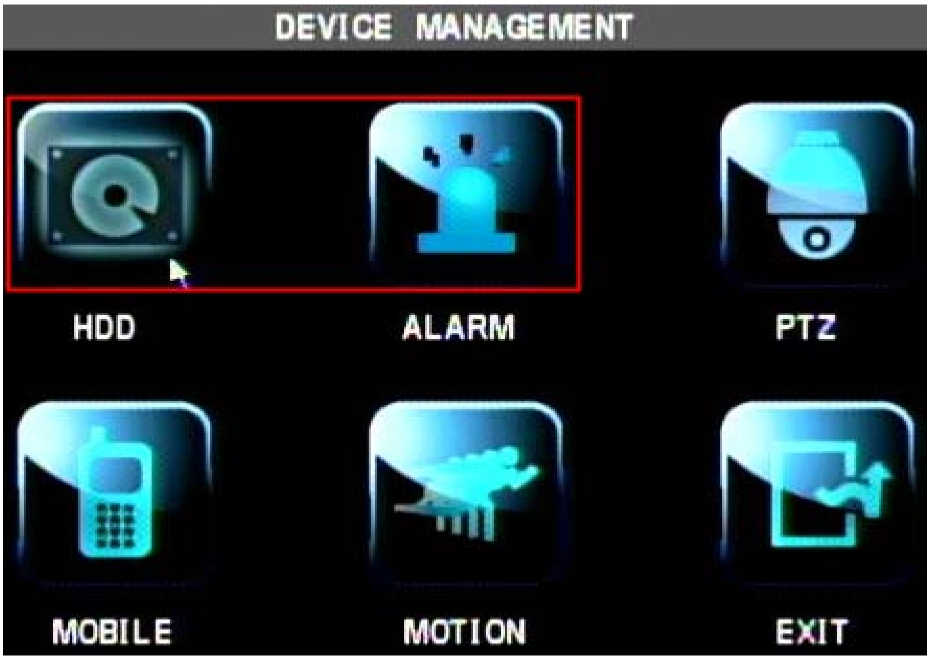
All Functions	
Channel	Allows you select the channel(s) you would like to search.
Time Search	In the Video Search screen, user can search for a specific date and time for a recording and view it in Playback mode. This is useful for hunting a specific recording of an incident if you know the date and time it occurred.
Date Search	In the Video Search screen, user can search for all the recordings in a specific date. To execute a video search, highlight and select the date numeric field , and then click a detailed time quantum of the specific date, system will start the playback from the first recoding of the time quantum.
Playback Mode	You can use the Playback Control bar to operate the Fast Forward (X2, X4 and X8), Slow play (1/2, 1/4 and 1/8 speed), Play, Pause/Frame, Rewind(X2, X4 and X8). When ending playback, DVR will return back to previous menu.
File List	Click "**File list**" button to enter into the "**File List**" screen, the video recordings for the time quantum will appear in the screen. And you also can filter the recordings you want to view by the Channel or recording mode based on date/time search.
LAST (Last page)	Click on "**Last page**" button, to go to the Last page.
ALL (Select All)	Allows you to select all the events on the current page.
INVERSE (Select Invert)	Allows you to select other events on the current page except those you have currently selected.
Backup	In the "**File List**" mode, if you wish to backup records, please check the "**Select**" check-boxes which corresponds to the recording and click "**Backup**" button to enter into the window.
1. Backup file will be saved as H264 format; you can playback the recorded files using the Player program that comes with the DVR or through the IE Browser. **2. Please make sure you have connected backup device well, such as USB and DVD, before backup**.	
First	Click on "**First**" button, back to first page.
PREV (Previous page)	Click on "**Previous page**" button will back to previous page(except the first page).
NEXT (Next page)	Click on **"Next page"** button will take you to the page after the one you are currently viewing (except the last page).

Log Search	
In the Record Search screen, Click **"Log Search"** to pop up the Log search screen.	Click on **"Search"** button on the bottom of the interface to search all the logs you need.
Export	
User can export all the logs which have been searched to U.S.B device and save it as *.**TXT format**. Before exporting the logs, please make sure you have connected the U.S.B device well. After Log export success, please click **"OK"** button.	

4.8. Main Menu Setup (Device Management)

4.8.1. H.D.D & ALARM Setup





HDD Management 



When DVR is connected to a HDD, the system will detect H.D.D automatically, when the new H.D.D was installed , system will ask for H.D.D formatting.

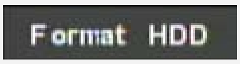
The functions of" H.D.D Setup"

NO：The number of HDD

TOTAL SPACE:
The capacity of Hard Drive or free space on the Hard Drive.

TIME: Based on current image detail/quality and frame rate, system will display the record time that you have left on the Hard Drive.

OVERWRITE:
Select **"on"** the system will automatically overwrite the oldest recordings once the hard drive is full. select **"off"**, recording will stop once the hard drive is full.

HDD FORMAT: You use this option to format the hard drive, you can not record files to the hard drive until it has been formatted. Click 

button to start formatting.

USB FORMAT: Use this option to format USB devices.

Note: It is an important first step when configuring your DVR to make sure that the hard drive (HDD) options are correctly set. So, it is strongly recommended that you do format the HDD before start the first record

Alarm Setup 





The functions of” Alarm Setup”

Channel: the option allows you select one channel you want.

HDD Loss:
When the **“Buzzer”** is in the **“ON”** position and the system can’t find the HDD or HDD is not be formatted, the symbol “H” will appear on the screen with buzzer sounded.

HDD Space:
When the **“Buzzer”** is in the **“ON”** position and the HDD out of storage space, the buzzer will be activated.
If the Buzzer is set to “OFF” position, the buzzer will not be activated.

Video Loss: When setting [Buzzer] to ON and when a camera has been disconnected. **“Video Loss”** symbol will also appear on the screen with buzzer sound. Set to OFF, you will only see the **“Video Loss”** appear but no sound.

Alarm Manage: **Alarm Output:** you can set how long the external sensor alarm will last when motion is detected (off, 10s, 20s, 40s, 60s); **Buzzer time:** you can set how long the buzzer will sound when motion is detected (0s, 10s, 20, 40s, 60s); **Alarm duration time:** you can set how long alarm record will last when alarm ends (0s, 30s, 1minute ， 2minute ，5minute); **Pre-record time:** you can set how long record will last before alarm occurs (Off, on).
Full screen Alarm: The function is defaulted in **"OFF"** position. When the motion detection or external alarm is triggered, the corresponding channel will be displayed on the full screen mode.
Email： The option allows you set the alarm images to send txt message to a specified email. You could freely select buzzer alarm or not and alarm output time for all the alarm types, and for the MD alarm and I/O status alarm you could set email and full screen reminder.

Alarm Type	Function
Video Loss	Sends alarm when DVR can't receive video signal (such as camera damage, cable broken or damaged or power supply malfunction).
Motion Detection	When an object moves into motion detection area, alarm will be triggered. You can adjust sensitivity level to suit the needs of your actual application environment.
HDD loss	When Hard Drive is not detected (HDD damage, power supply malfunction), or HDD auto-overwrite is off, and free space is not enough, an alarm will be triggered.
HDD space	When the HDD is full, the alarm will be triggered.

4.8.2. Email Alarm Notification

Because of the type and the ISP service company is variety worldwide, Hence, we only provide 1-2 company for an example, if you have any question of E-mail, please contact your local ISP service. Please make sure your DVR already connected to internet:



Functions		
Email	Enable: Open	Disable: Close
SSL	Enable:Open	Disable: Close

SSL is a security link transport protocol. You can encrypt your communication info (including your email) using SSL to prevent hackers from monitoring your email or communication info and even your password. Please confirm with your email service provider if your email server support SSL or not.	
SMTP Port	The Specified sender port of SMTP server(forwarding server/Host)
Generally the SMTP port value is 25 ,but for SMTP port of G-mail server is 465. *if your E-mail needs to be verified by SSL, the port is going to be 465(default value), and port 25(default value) is the Email without SSL verification.	
SMTP server	**Simple Mail Transfer Protocol** (**SMTP**) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks.
Sender	The original sender (forwarding server/Host).
Sender PWD	Password of original sender
Receiver	The target receiver of alarm notification (target).

***Press Test button to check if your email operating normal.**

Setting Procedures:

Step 1. Right click of the mouse, the main menu will pop-out.

Step 2. Click **"Main Menu"** option.



Step 3. Click **"Device"** icon, alarm icon will pop-out.



Step 4. Click **"Alarm"** icon.



Step 5. Check the **"EMAIL"** block, and then click **"EMAIL SETUP"** button.



Step 6. Select **"Enable"** for SSL, if your E-mail server needs the SSL verification.

Select **"Disable"** for SSL, if your E-mail server doesn't need the SSL verification。

Step 7. Key-in the **"SMTP Port"** for the sender.

*For example: the default value of Gmail SMTP Port is 465, and the others is 25. If you use Gmail, you can key-in 465.

*In the email setting, we all take the Gmail for example.

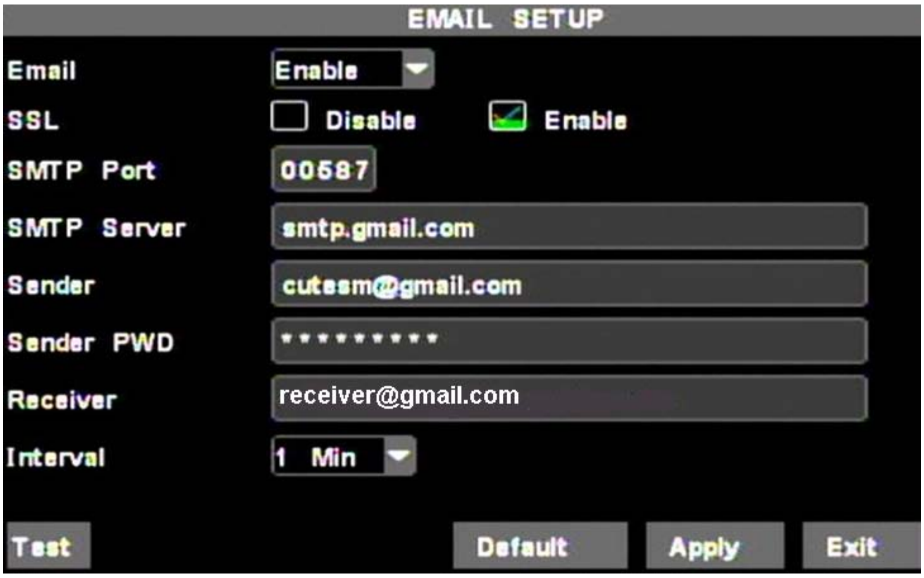
Step 8. Key-in the **"SMTP Server"** of your Email which to be the sending server/host.

Step 9. Key-in the Email address in **"Sender"** column which to be the sending server/host.

Step 10. Key in the password in **"Sender PWD"** column for the server Email.

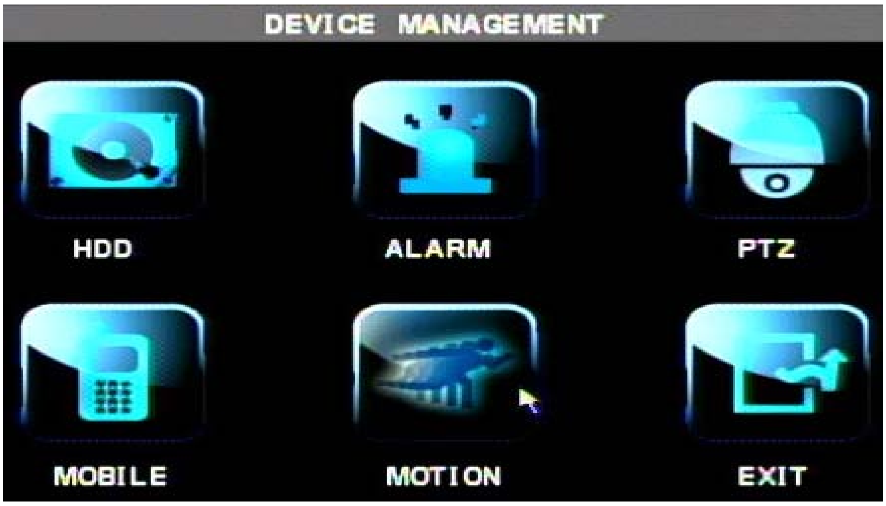
Step 11. Key-in receiver E-mail in **"Receiver"** column.

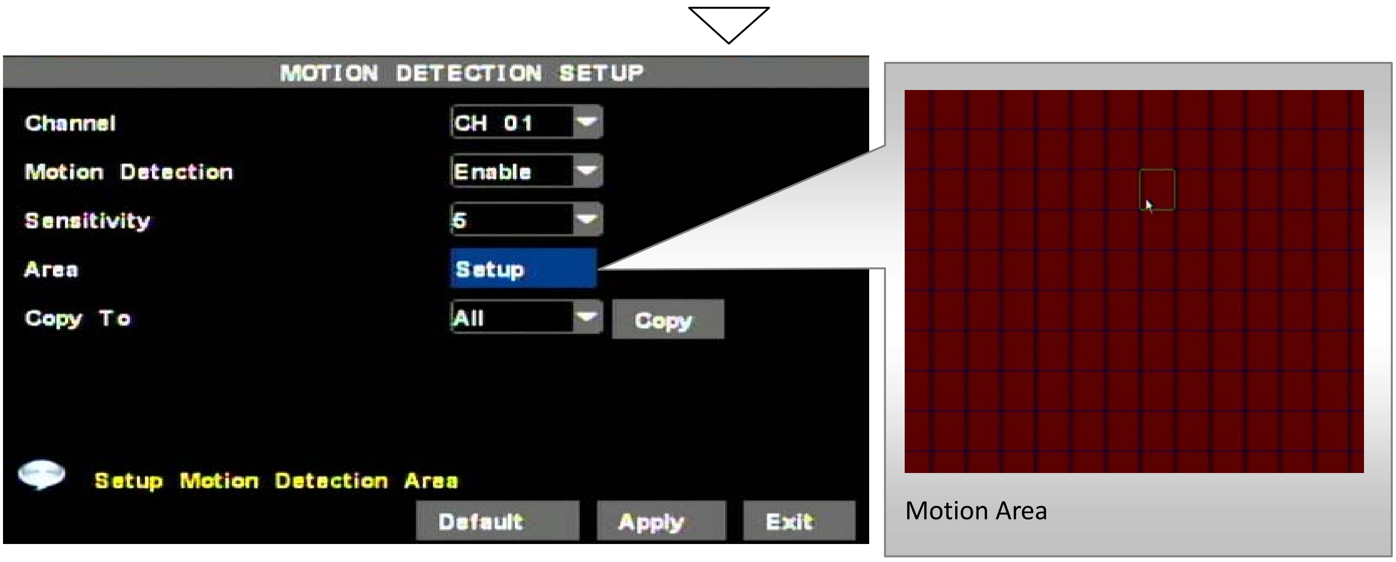
Step 12. Click **"Apply"** button.



After finished setup of Email, you have to enable the function of motion detection.

Step 13. Click **"Motion"** icon, and make sure motion detection is enabled.



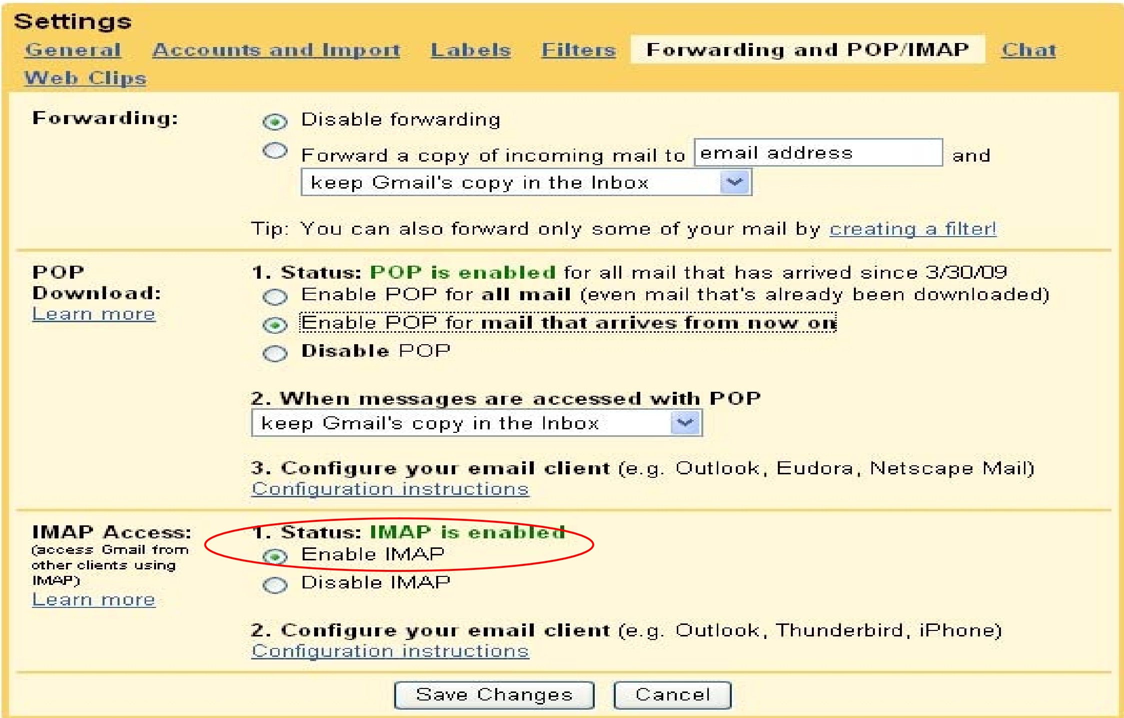


***Before setting Gmail , please setup the motion area. Red: enable, blank: disable**

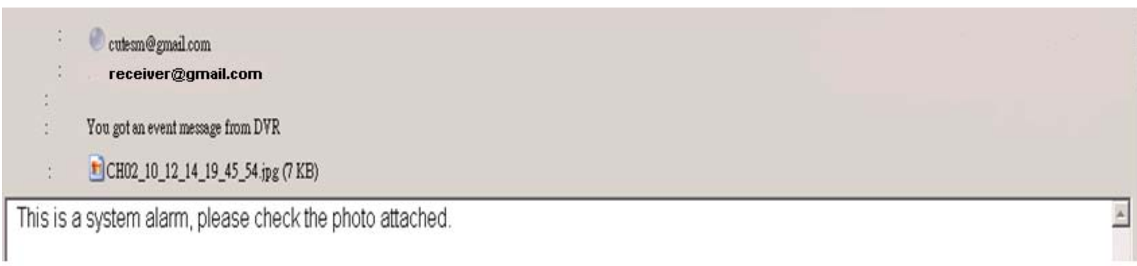
***If you don't use Gmail, please skip this step.**

Step 14. Login Gmail and go to **"Settings→forwarding and POP/IMAP→Enable IMAP".**

This step is for Gmail only.



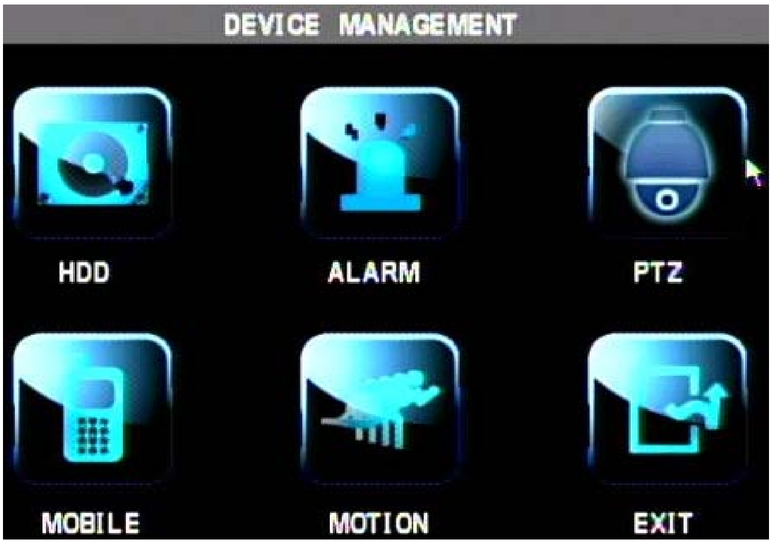
Step 15. Now, check your e-mail and see if you receive an e-mail (along with attached Photo) from DVR.

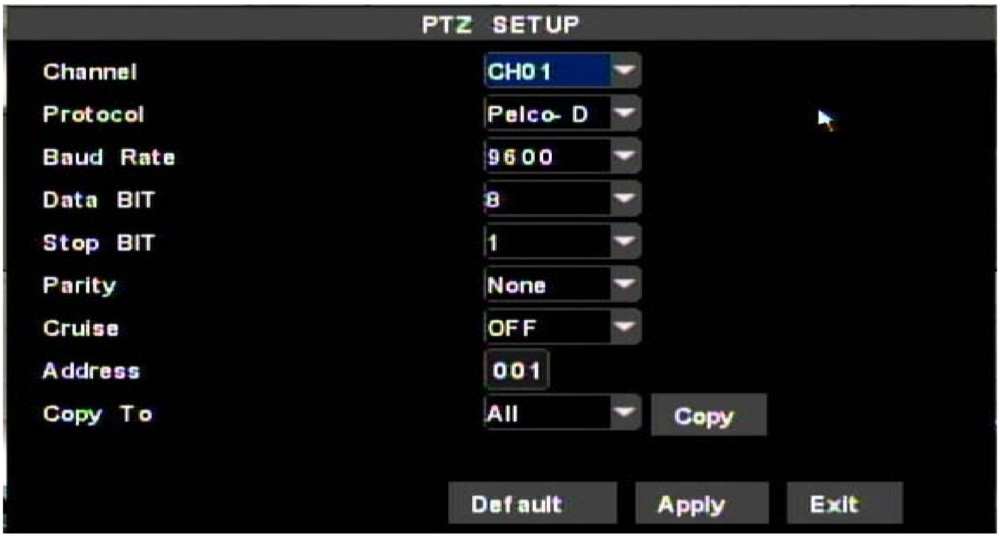


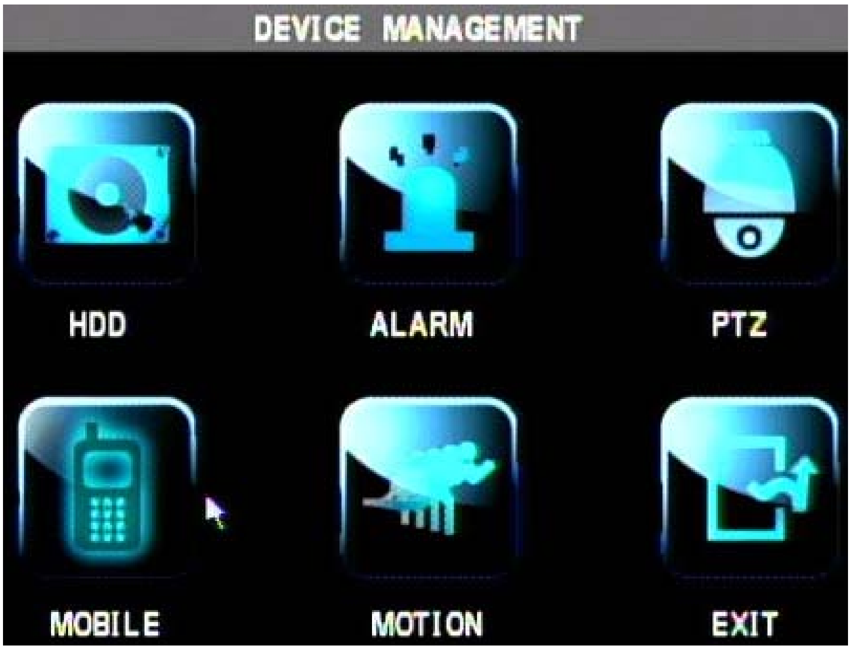
4.9. PTZ & Mobile Setup



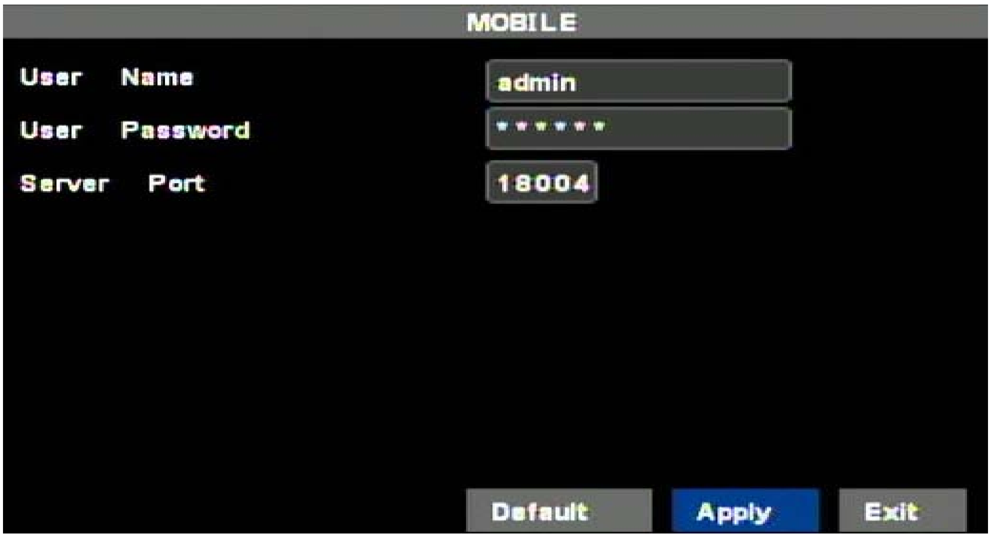




PTZ Setup 

The functions of" PTZ Setup"
PTZ protocol (Pelco-D or Pelco-P) **Baud Rate (1200, 2400, 4800, 9600),** **Data bit (8, 7, 6, 5),** **Stop bit (1, 2),** **Parity (None, Odd, Even, Mark, Space),** **Address Code** **Cruise** *PTZ device can be activated only when a channel in connection with the PTZ camera is selected.



Mobile Setup



The functions of" Mobile Setup"

User Name: indicate user name of DVR.

User password: indicate user password of DVR

Server port: Mobile monitoring port. Setting range is between 1024 and 65535.

Explanation: Please connect DVR to Internet before setting DVR port number and the server port number is not equal to network menus.

The user name and password you enter can not be empty.

You should forward the server port number to router

***for global service center of mobile phone, please refer to appendix J.**

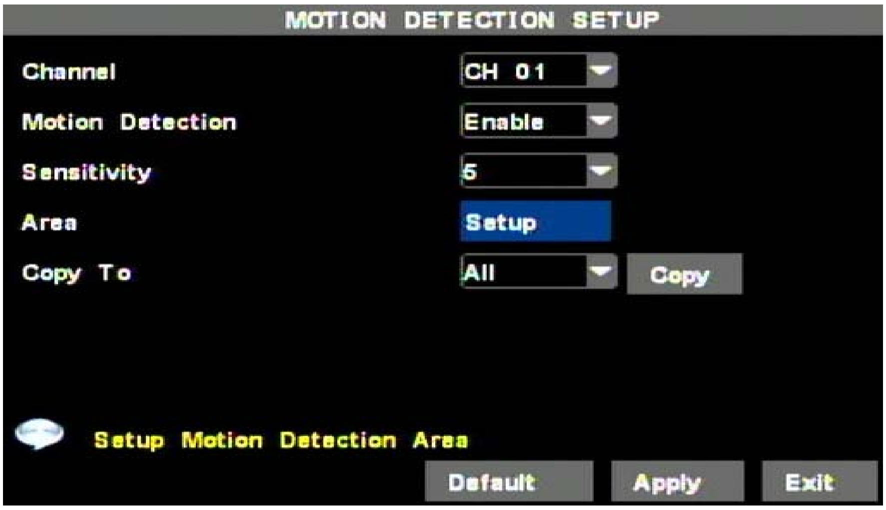
***if you have any question of mobile phone, please go to website and contact the local service center .**

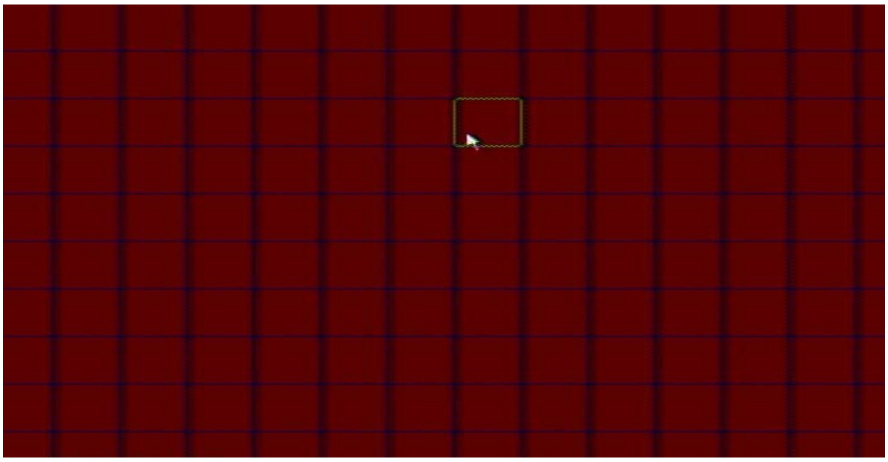
4.10. Motion Detection Setup











Motion Detection Setup 

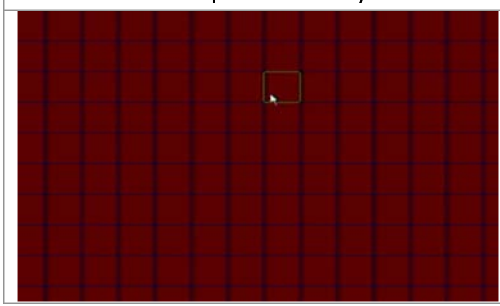
The [Motion detection] Menu has three sections, including Channel Status, Sensitivity and Motion area.

The functions of" Motion Detection Setup"

Channel : This option allow you enable motion detection on any channel.

SENSITIVITY: This option allows you to set sensitivity level of motion detection from higher to low with 8 being the most sensitive.

MD AREA: This option allows you select the area you want to be sensitive to motion.



The channel is separated into a 15X10 area. When any object moves into the motion detection area, the alarm will be triggered.

4.11. Main Menu Setup

【System/Privacy Zone/Time/Password/Video/Language/Maintain】

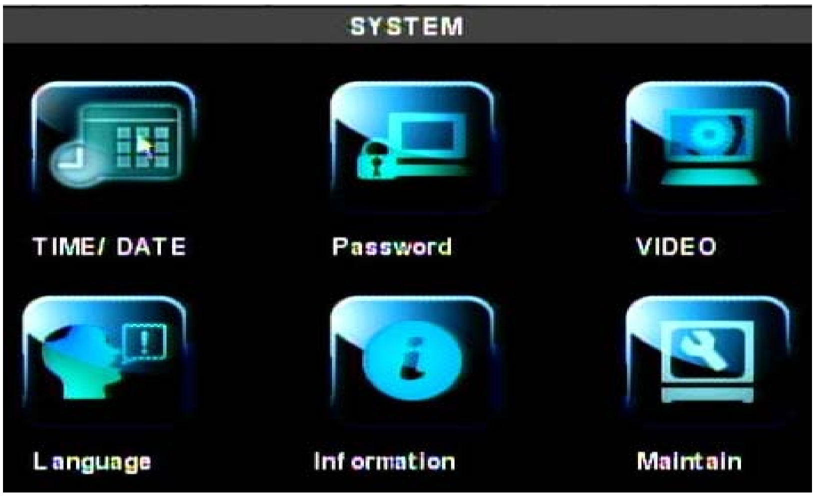
The "**System"** Menu includes:

Time Setup, User Password, Audio/Video Setting, Language select, System Info. , Privacy zone and **System Maintenance.**

After entering into the "**System"** menu, you can configure the relative parameters to meet your needs.

*The OSD switching between VGA and BNC is in the section of Audio/video setting.





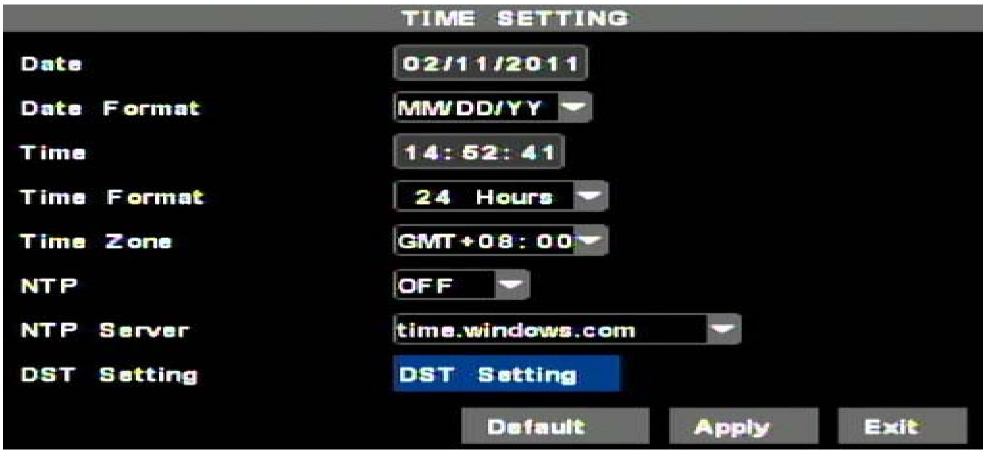
***There are 6 types of system settings, as below:**

TIME/DATE

NTP UPDATE BUTTON



DST SETUP BUTTON



DST SETUP BY WEEK/DATE



You can modify the system date, time, date/time format, and time zone, DST (day time saving) status and NTP.

There are 2 types of DST which you can setup.

1. Setup by week
2. Setup by date

Click **"Apply"** button to save the settings.

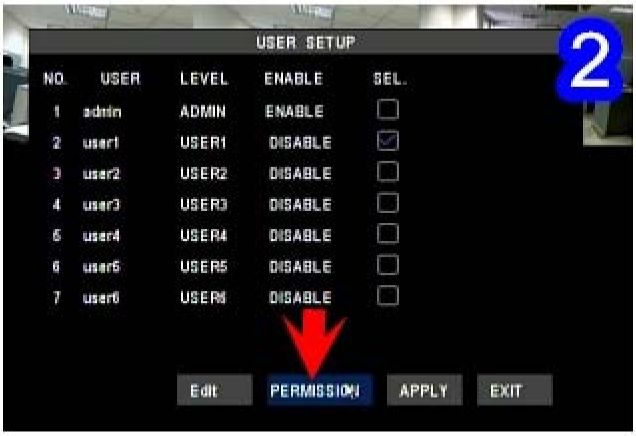
Password

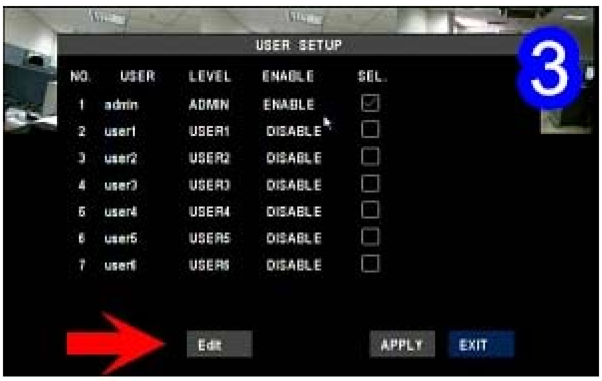
This option allows you set the device ID for the DVR and set the system password and authority. The new passwords will be available after clicking **“APPLY”** button.
When you set Password Enabled to **“ON”**, you can setup a user password and administrator password respectively. The password must be 6 characters or over.

Buttons	Functions
	For enabling or disabling the password.
	For administrator to set the permission for other users.

1. Click **”Password”** icon to enter the setup page of password (image 1)
2. Select the user which you would like to enable the authority (image 2)
*for administrator, you don’t need to setup permission.
3. Click **”Permission”** button to set the authority for user (image 2)
4. Click **“Apply”** button to confirm the settings (image 2)
5. Click **”Edit”** button to enable the password (image 3)
6. Enable password (image 4)
7. key-in password (image 4)
8. Click **”Apply”** to enable the password (image 4)









Video/Audio Setup

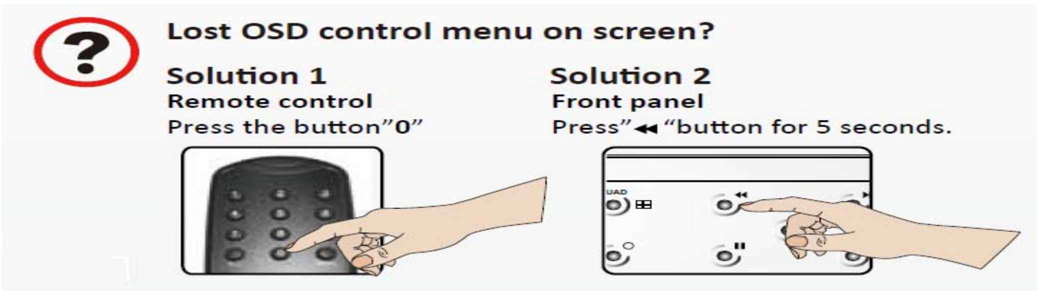


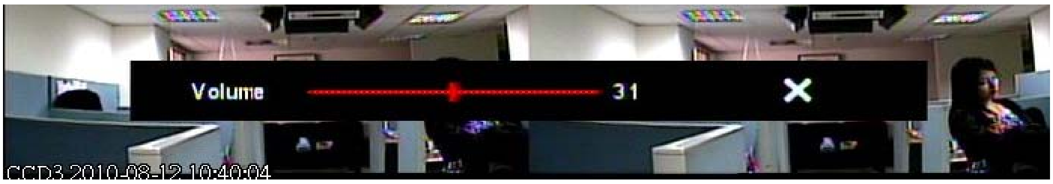
Video System: allow you set Camera system (PAL, NTSC).

VGA Resolution: include 4 options - 1280×1024、1024×768、800×600 and 1440×900.

Rotate time： allow you select sequence time between from 5s and 300s.

OSD Output: Allow you to select the video output between VGA /BNC/AUTO.
The default main menu options is on VGA output.
If you have trouble of finding the option of main menu, please use the following solutions:



Margin Setup
 Click the **[Volume]** and/or **[Margin]** options on the right-bottom corner of the Video/Audio screen to adjust the volume and/or margin respectively. 

Privacy Zone	
*The total area of privacy zone is 4 areas.	
Step 1. Right Click **”Main menu”** option. **Step 2.** Click on**”system”** icon. (image 1) **Step 3.** Click on**”Video”** icon. (image 2) **Step 4.** Click on**”Privacy Zone”**. (image 3) **Step 5.** Select the channel (image 4)	**Step 6.** Click the area which you need. (image 4) **Step 7.** Click on **”Setup”** to set the area. (image 4) **Step 8.** Drag the area zones into position **Step 9.** Right mouse click and click on apply





Language

Enter into **[Language]** menu to select the language you want to use on the DVR and then click **[APPLY]** button. The selection will be available after system Auto restarts.

System Information

Enter into **[System Information]** menu to view system info, including Device type, Software (firmware) version, IE version and MAC address etc. When connecting multiple DVR to the same local area network environment, you need to change MAC address for each DVR respectively; otherwise, you may not connect these DVR to network.

Maintain



This option allows you recover the DVR settings to factory default settings, update system software (firmware), and set system auto-maintenance.

***There are 4 functions:**

Auto Maintain:

*After enabling **"Auto Maintain"** function , the system will perform regular maintenance depend on your need. Please note the [Auto Maintain] function will be available only when DVR is on the Main interface and have no user online.

Auto Reboot

*After completed **"Auto Reboot "**setup, the system will auto reboot according to the setting.

Update:

Copy the file named with **"dvrupgrade"** to USB flash drive; and insert USB flash drive into USB port of DVR, and then click **"Update"** button to update system.

Reboot:

Click the [Reboot] button to restart the device manually.

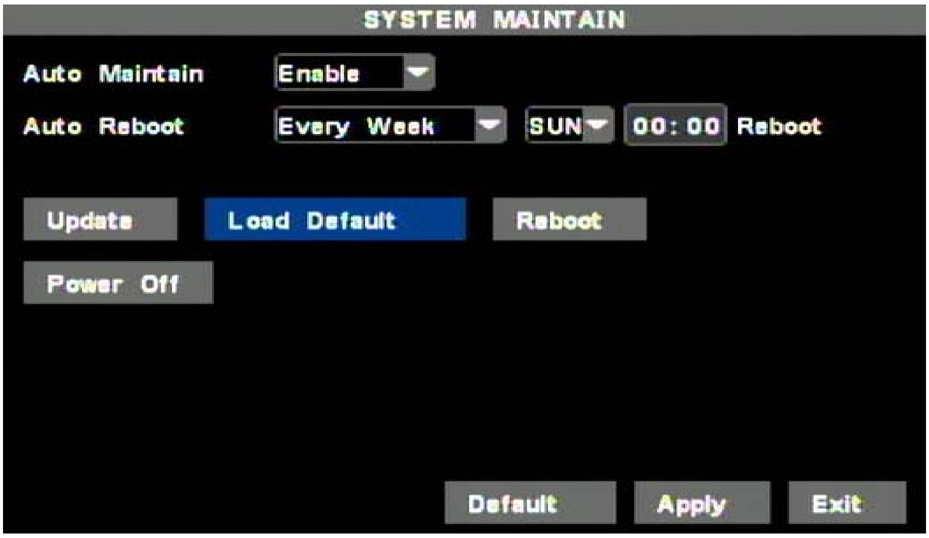
Power Off:

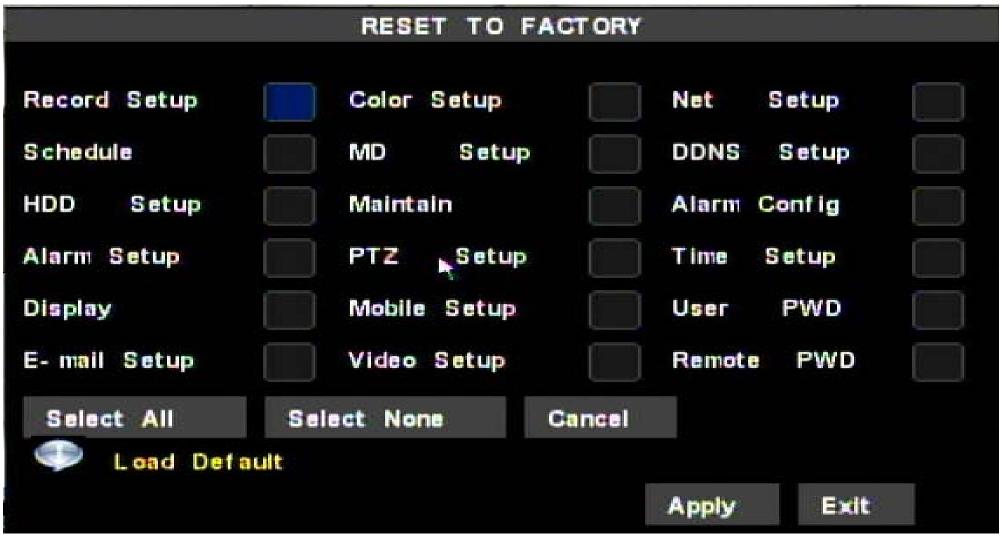
The button allows to shut down the system from OSD.

Do NOT Turn off the power and unplug USB Device during update.

if you have any information of DVR upgrading please contact your local dealer or sale person.

Load Default from the function of MAINTAIN





Load Default:

After entering into this system , you can select the item which you need to reset to factory default.

Chapter 5. Network Access(Remote)

There are 2 methods to remote access the DVR via network:

Internet Explorer Browser (IE),and Mobile phones.

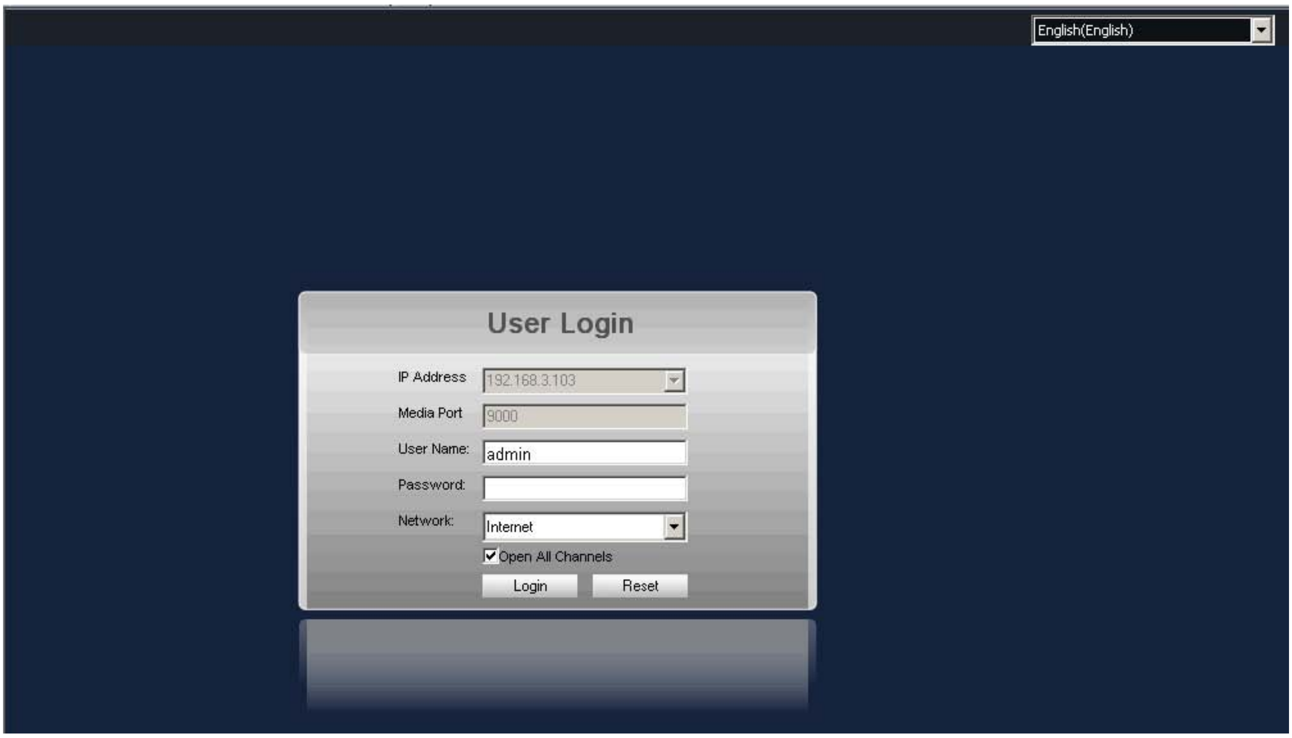
5.1. IE Setup

5.2. Web Log-in(IE Browser)

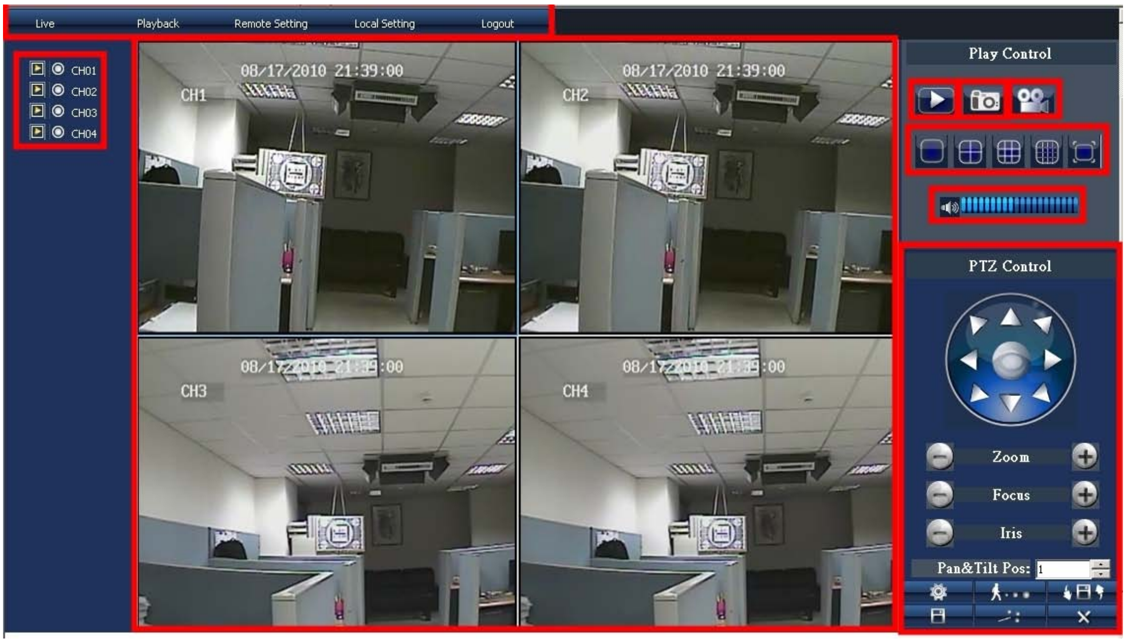
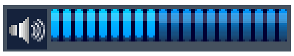
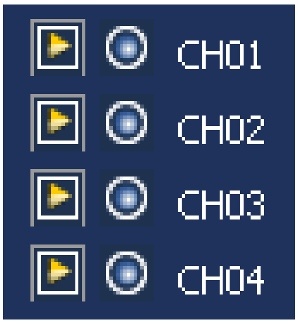
4-CH DVR allow you have **5 users** on-line simultaneously.。

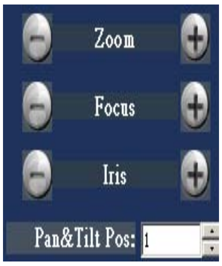
8-CH DVR allow you have **3 users** on-line simultaneously.。

*** The default username is "Admin".**
*** Default password is empty.**



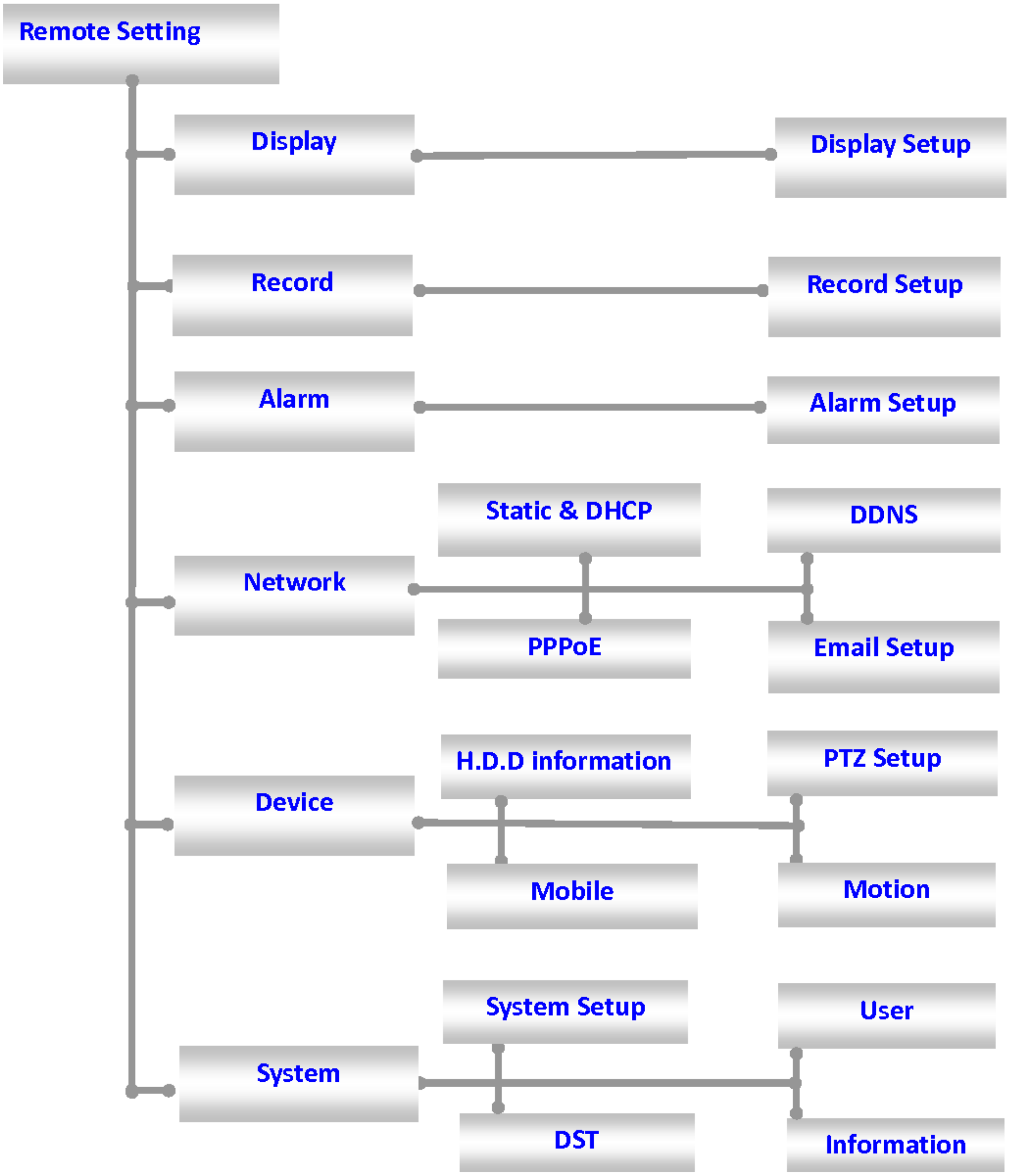
5.3 Control Panel(Live view)

The Control panel	
	
	Live video connect/disconnect (ON/OFF)
	Snapshot: Picture Format: *.bmp
	Record: To record live video remotely
	Channel display mode: 1 ch/4 ch/8ch/16ch/full screen
	Volume button
	Click the [] icon of one channel to display the image of specified channel. Click the [] icon to start manual record.

PTZ Control		
	**Direction Pointer**	To move the PTZ to any direction
	**Zoom** **Focus** **Iris**	Zoom in/zoomout;focus adjunstment and Iris control
	Pan & Tilt Pos	Indicates that you can choose the cruise starting point ,as your desire.
	**SET**	To set the preset point.
	**Clear**	To delete the preset point.
	**To load the last preset point**	Key-in the preset point and click it to load the last preset point which you set.
	**GoTo**	To Go to the preset point.
	**Save**	To save the changed or the preset point.
	**Cruise**	Allows you to enable/disable the **"Cruise"** function.

5.4. Setup(Remote Setting)

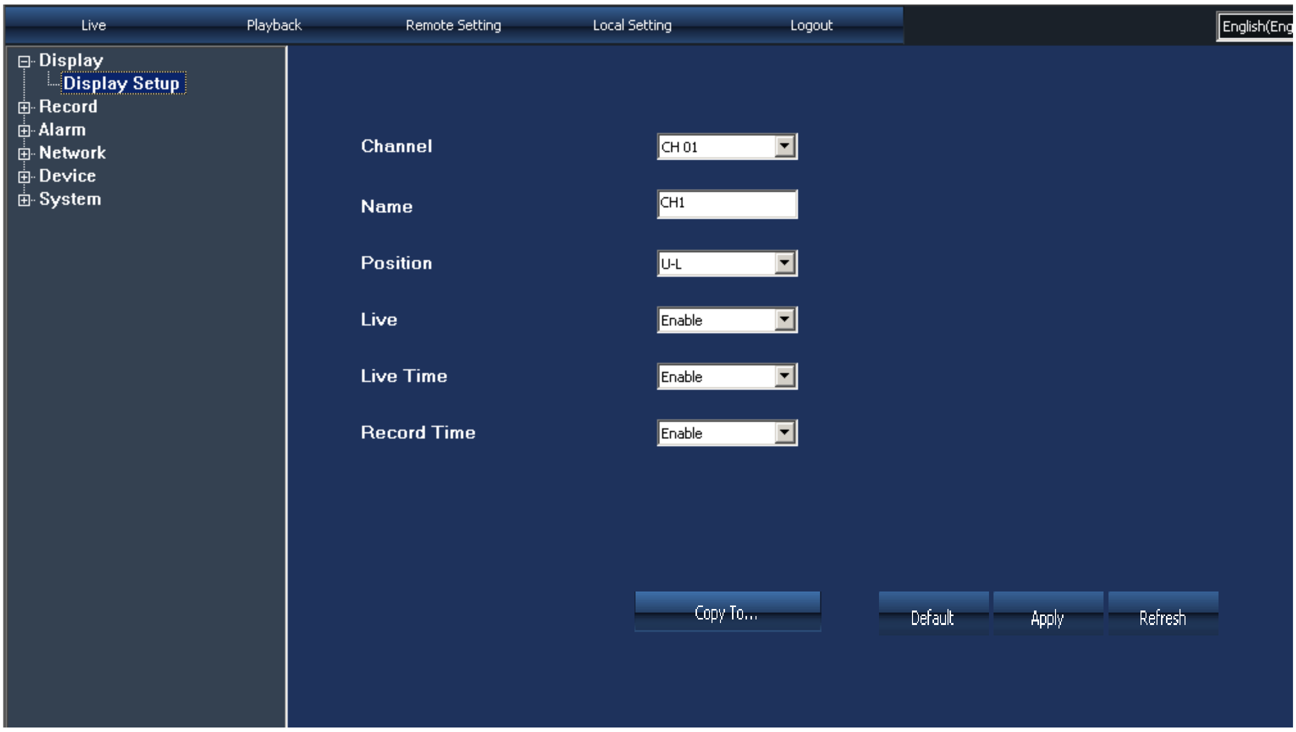
5.4.1. Structure of Remote Setting



After completed each setup, you have to click"  " to confirm the setting.

5.4.2. Display Setup

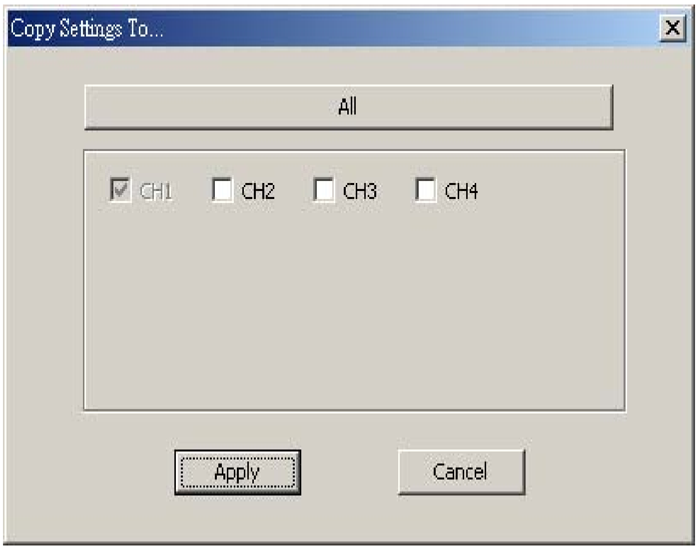
You can setup Channel title/the title position/enable or disable live view/live view time display and record time display.



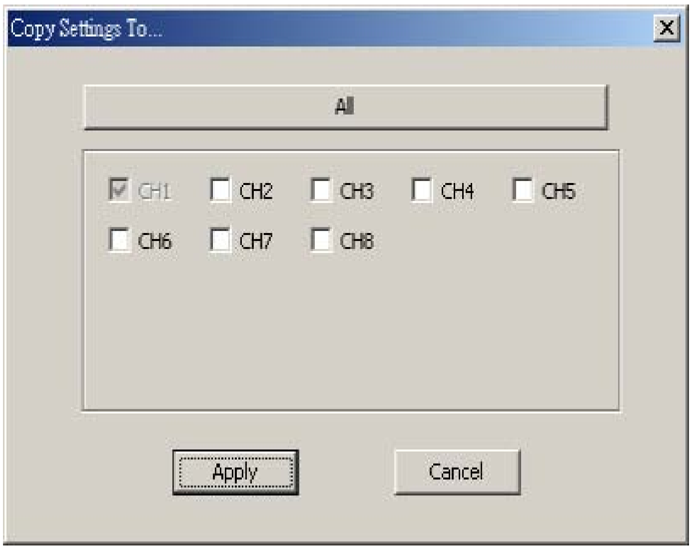
when you see "

"button, you can copy the setting to the channel which you would like to copy.

<u>4 CH</u>

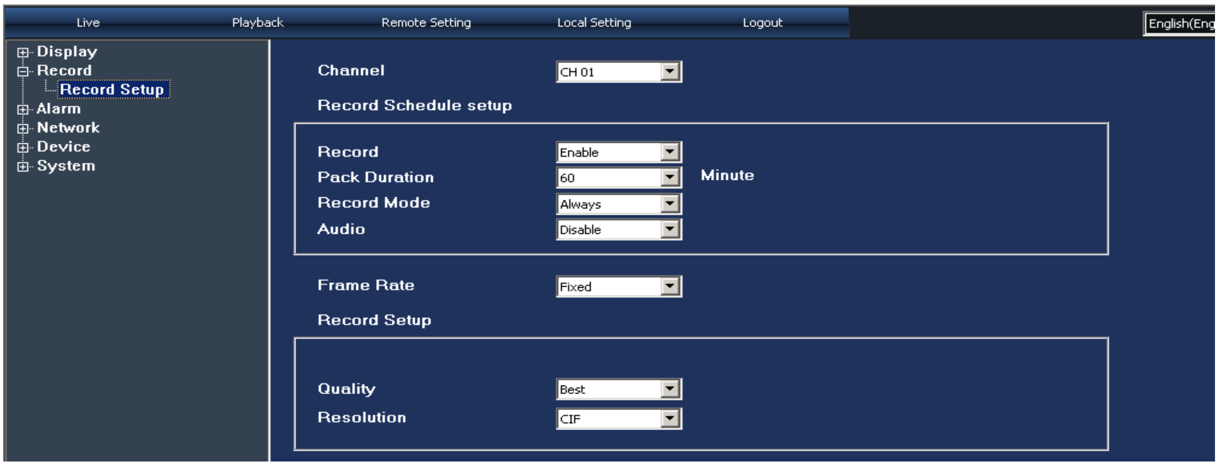


<u>8 CH</u>

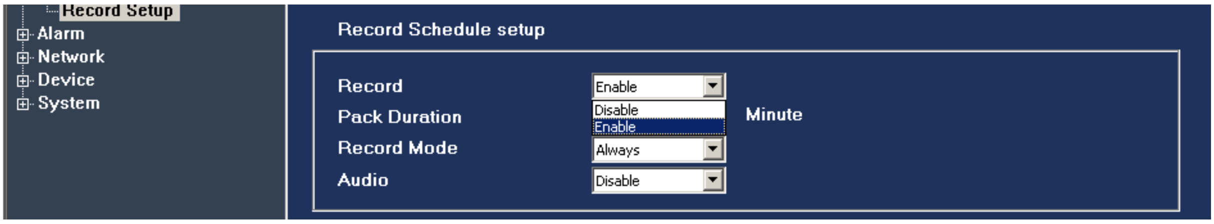


5.4.3. Record Schedule:

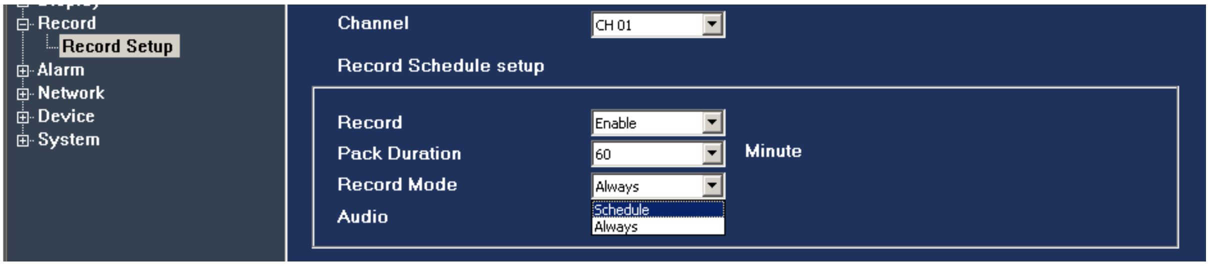
This function allows you to setup the record schedule from remote site.



Step 1. Select **"Enable"** button from **"Record"** inside the **"Record Schedule Setup"**.

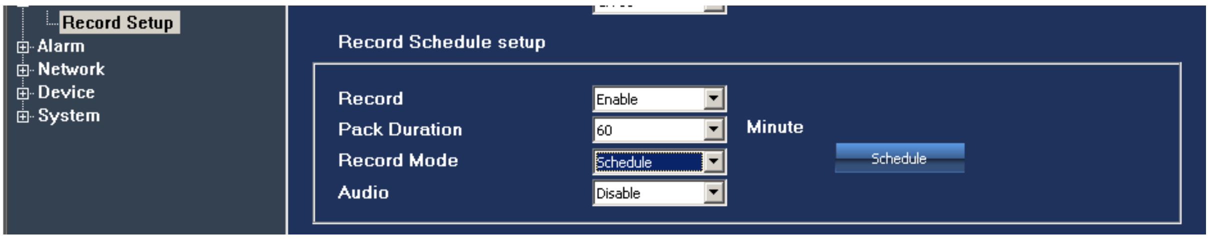


Step 2. Select **"Schedule"** from **"Record Mode"**.



Step 3. Click 

button to setup the record mode.

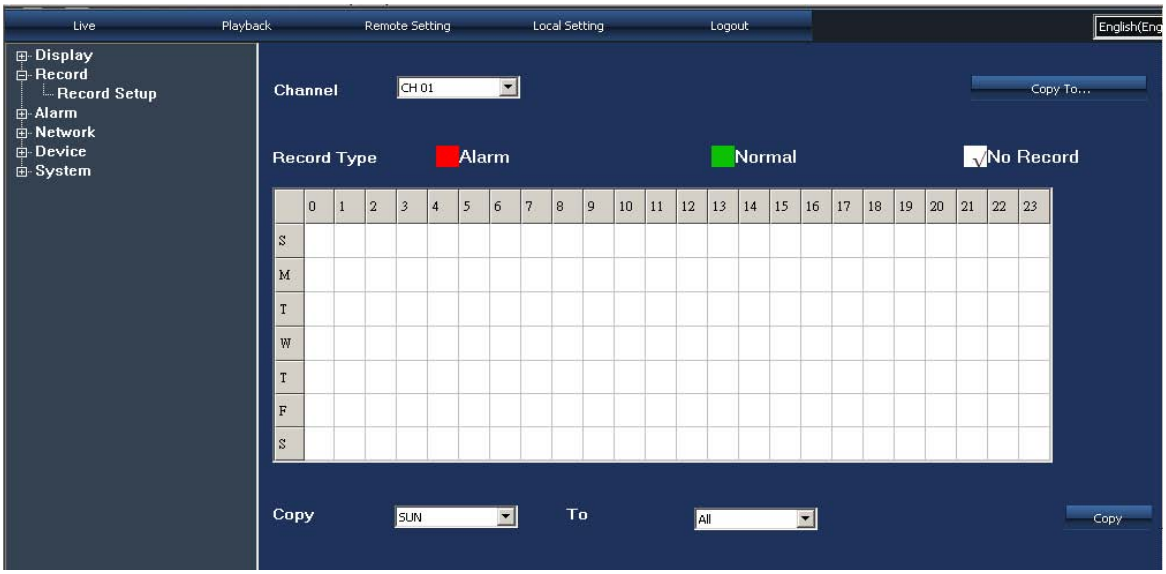


Step 4. Check the record mode which you would like to setup.

There are 3 types of record mode:



* **【Red color: Alarm Record】【Green color: Normal record】【transparent/white: No record.】**

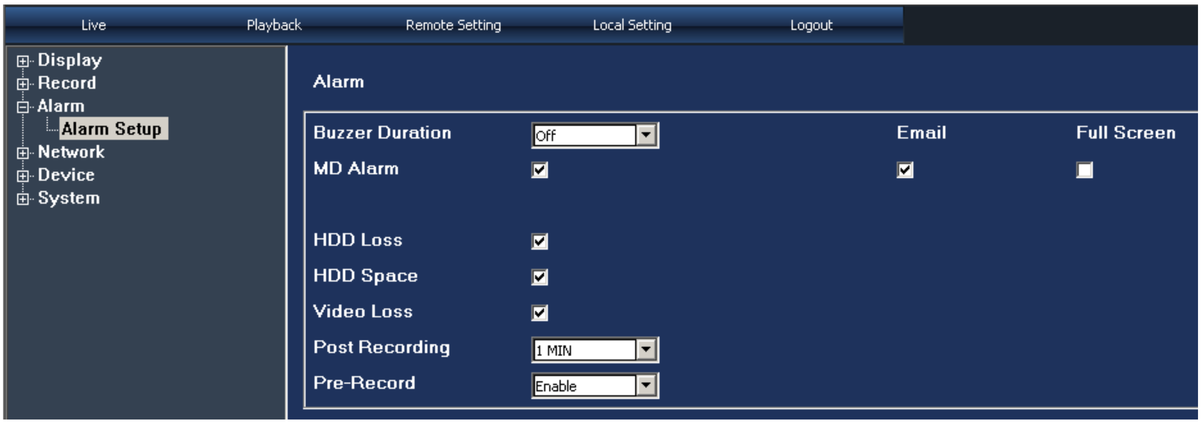


Step 5. Click 

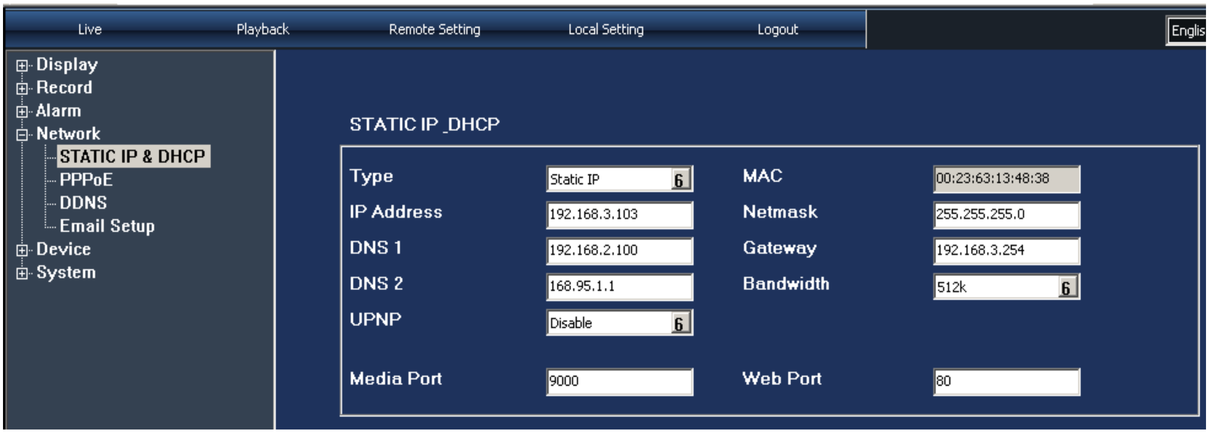
button to save the setting.

5.4.4. Alarm Setup

You enable or disable the buzzer/motion alarm/HDD Loss alarm/Not enough HDD space alarm/Video Loss alarm/Post recording/Pre-record



5.4.5. Network



There are 4 modes of Network setup	
Static IP/ DHCP	For setting static IP & DHCP.
PPPoE	For setting PPPoE.
DDNS	For setting specified DDNS.
Email Setup	To send E-mail for some special event.
For all setting, please refer to the information below.	

5.4.5.1. Static IP

Step 1. Click **"STATIC & DHCP"** option.

Step 2. Choose Type→**"Static IP & DHCP"**, and key in all information, including, IP Address/Media Port/Web Port/Gateway/ Netmask / DNS Server.

*Normally, the DVR will have the same information with internet.

Step 3. Click 

button to save settings.

5.4.5.2. DHCP

Dynamic Host Configuration Protocol (**DHCP**).

It also provides a central database for keeping track of computers that have been connected to the network.

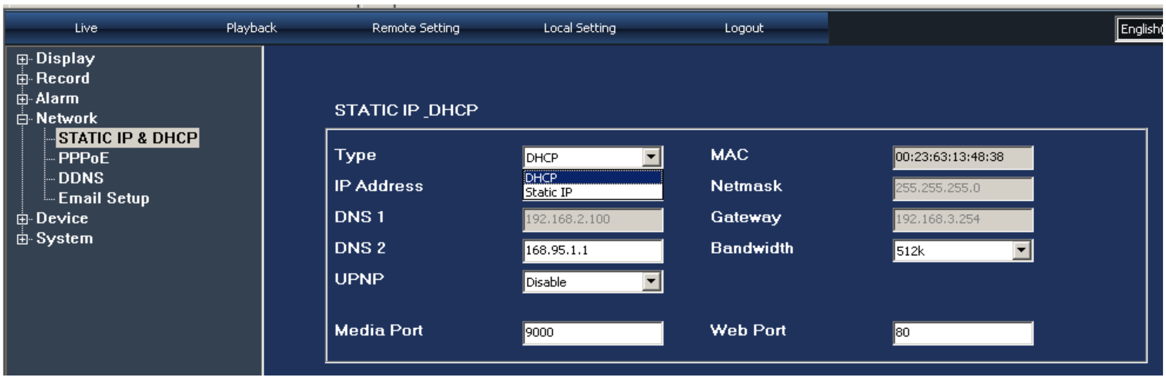
it can prevent two computers from accidentally being configured with the same IP address.

Step 1. Choose **"DHCP"** from type. Key-in the gateway which was provided by your local ISP service.

Step 2. Click "

" button to confirm the setting.

If you have any question of internet, please contact your local ISP (Internet Service Provider).



5.4.5.3. PPPoE

Point-to-Point Protocol over Ethernet (**PPPoE**) is a network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames.

By using PPPoE, users can virtually "dial" from one machine to another over an Ethernet network, establish a point to point connection between them and then securely transport data packets over the connection.

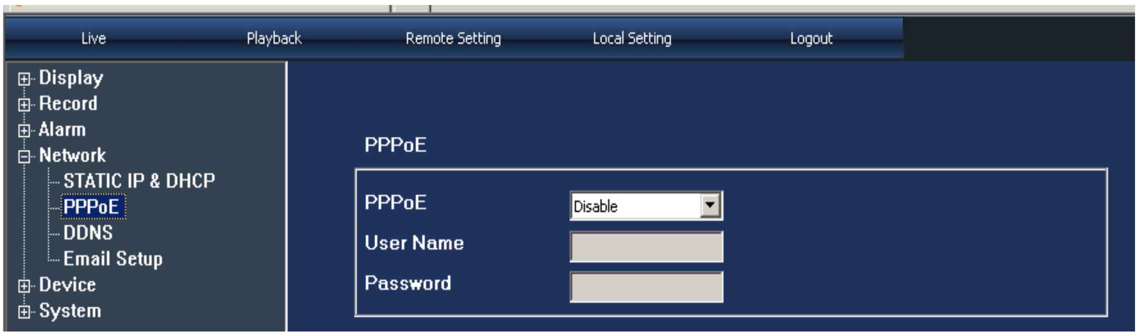
If you have any question of internet, please contact your local ISP (Internet Service Provider).

Step 1. Click **"PPPoE"** option.

Step 2. Enable PPPOE.

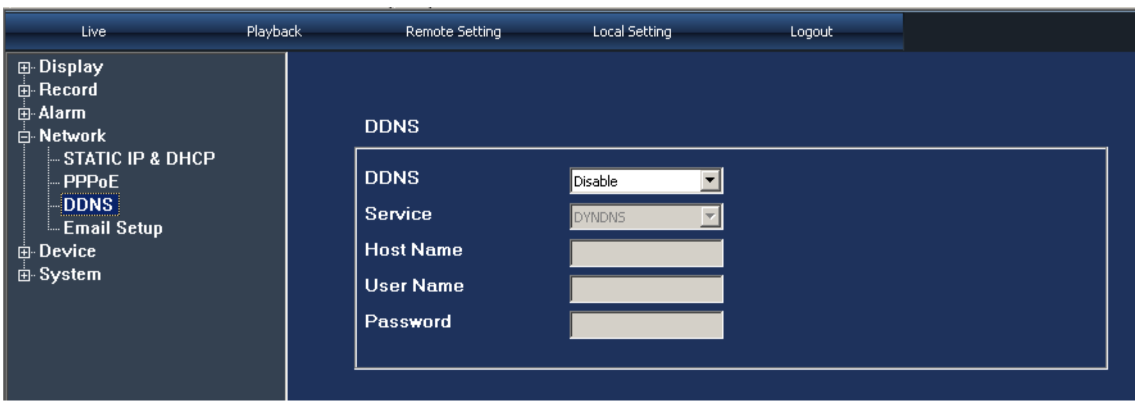
Step 3. key-in the username and password which was provided by local ISP service.

Step 4. Click Apply to confirm the saving.



5.4.5.4. DDNS

<u>**Dynamic DNS**</u> is a method, protocol, or network service that provides the capability for a networked device.



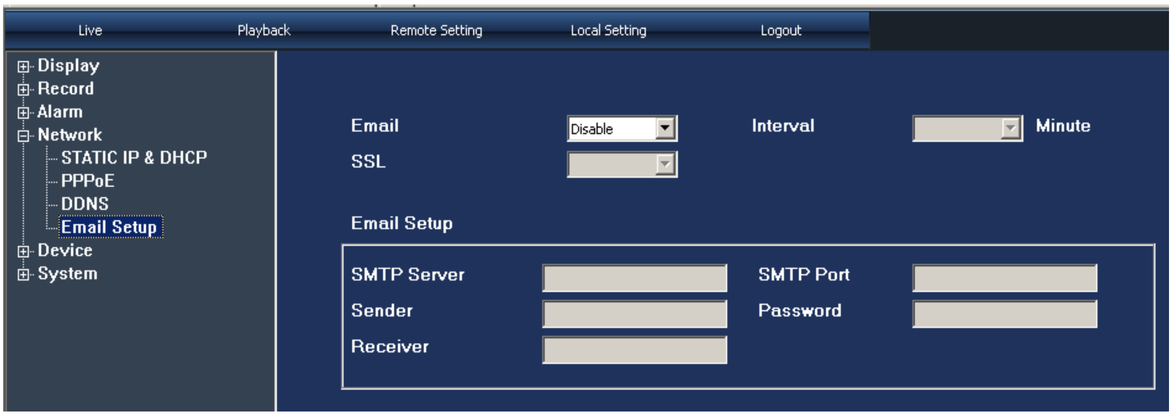
1. Click **" DDNS "** option.
2. Set DDNS to **" Enable"**
3. Choose the server for DDNS
4. Key-in the information which was provided by ISP service company.
5. Click" 

"button to confirm settings.

*For free DDNS , Please refer to **"Appendix D"**

5.4.5.5. Email Setup

If you have any question of E-mail Setting, Please refer to section 4.8.2.(E-mail setup).



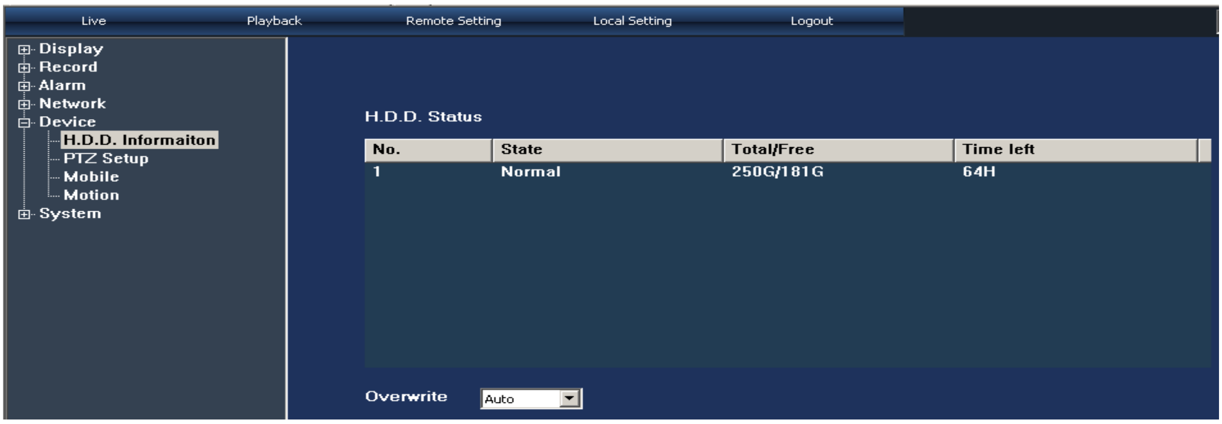
1. Click **"Email Setup"** Option.
2. Email to **"Enable"**
3. IF your Email with Email Encryption, you have to set **"SSL"** to enable".
4. key-in SMTP server.
5. key-in the Email address of sender.
6. key-in the Email address of receiver.
7. Set the sending interval for Email
8. Key-in the SMTP port.
9. key-in the password of sender.

*The port for Gmail is 465, other SMTP is 25.

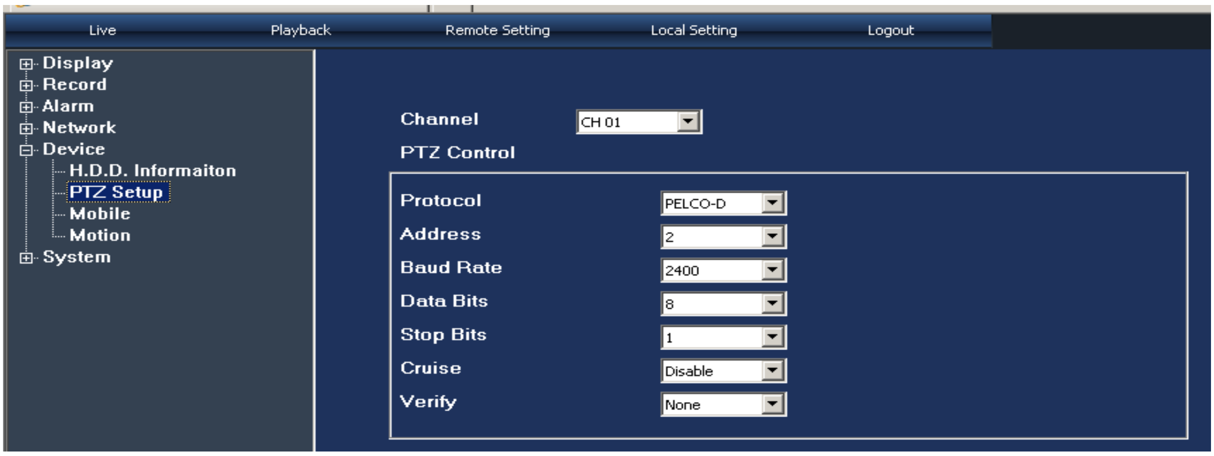
5.4.6. Device (H.D.D/PTZ/Mobile/Motion)

In this option, you can view the information of **H.D.D.** as well as setup **PTZ/Mobile/Motion detection.**

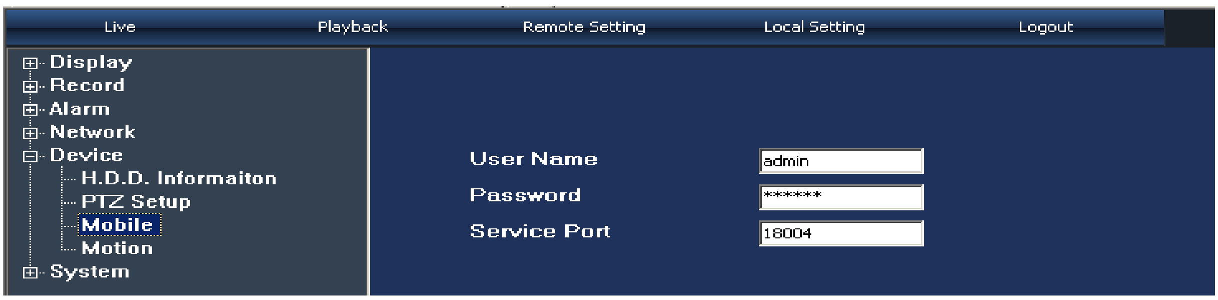
H.D.D. information



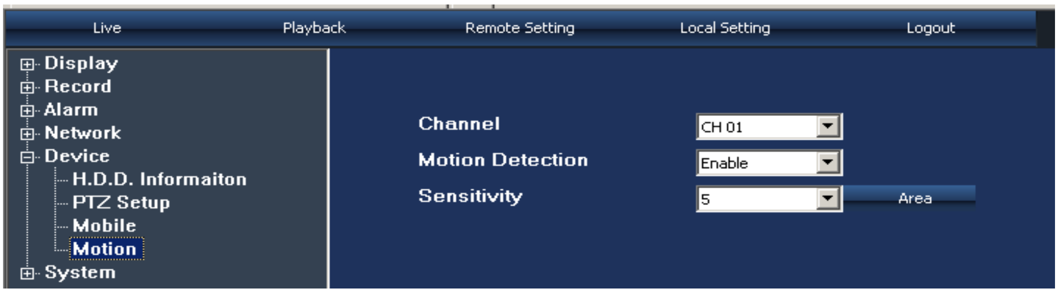
PTZ Setup



Mobile

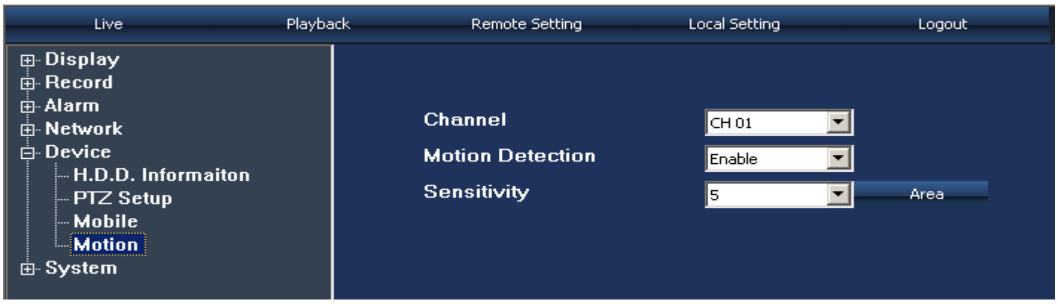


Motion:

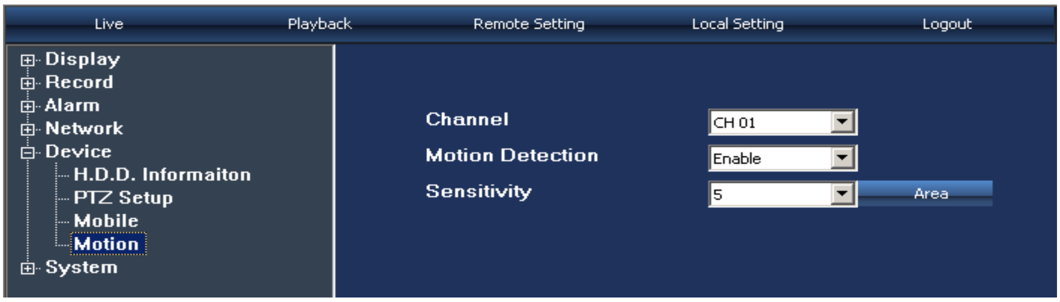


Please follow the step , below:

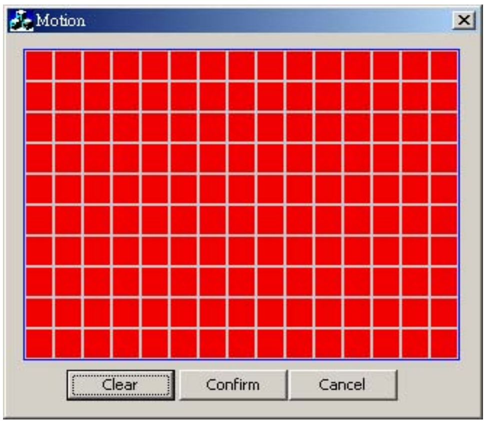
Step 1. **Enable Motion detection:**



Step 2. **Click ""button.**



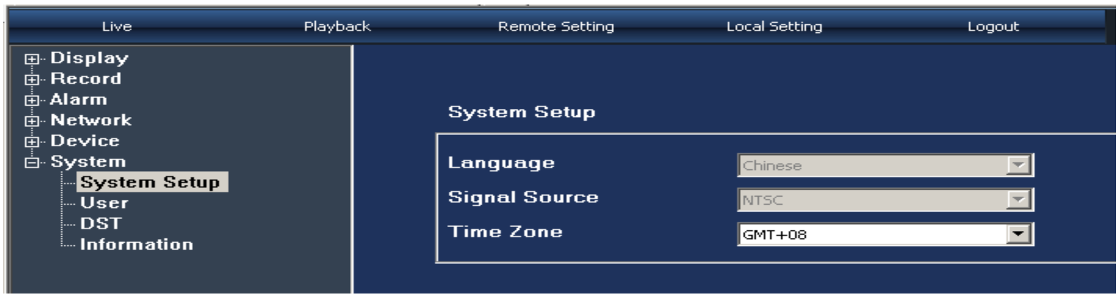
Step 3. The motion detection setup block will pop-out and you can click the area which you don't want to setup.



5.4.7. System setup(Password/DST)

There are 4 options:
System Setup
User setup
DST
Information

5.4.7.1. System setup



5.4.7.2. Authority(Password management)

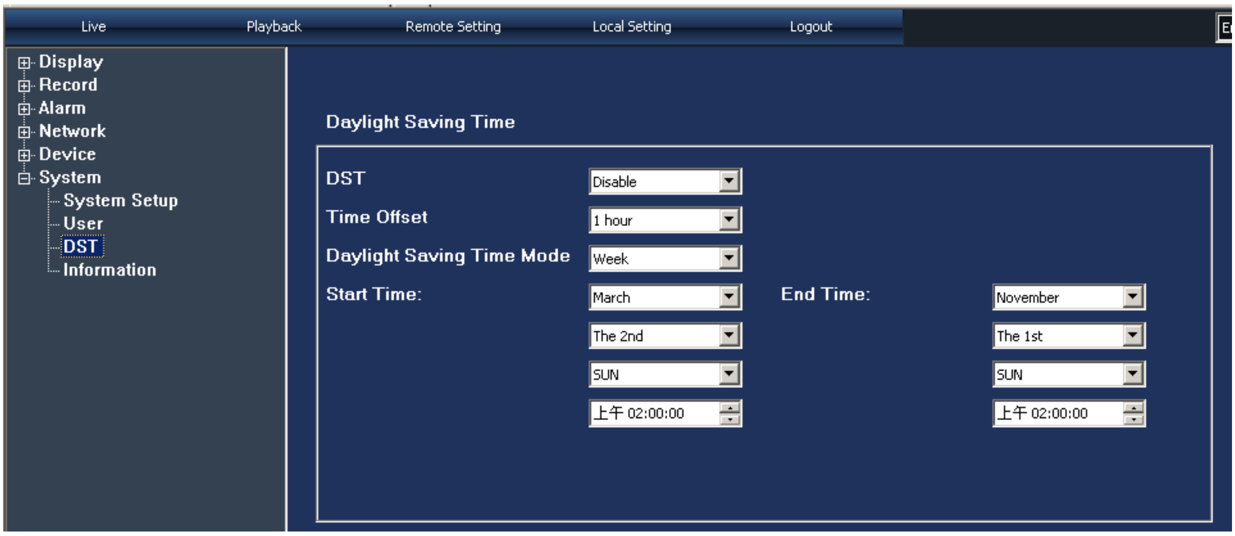
You can set 6 users in this setting, if you would like to set the authority for each user, you have to log in the account of Admin.

No.	User Name	Type	ACTIVE
1	admin	ADMIN	Enable
2	user1	USER1	Disable
3	user2	USER2	Disable
4	user3	USER3	Disable
5	user4	USER4	Disable
6	user5	USER5	Disable
7	user6	USER6	Disable

1. Click **"User"** Option.
2. Choose the user which you would like to provide authority (6 users).
3. Set Active to **"Enable"**.
4. Set password to **"Enable"**.
5. key-in username which you would like to set.
6. key-in password which you would like to set.
7. Reconfirm password.
8. Check the item which you allow other user to use.

5.4.7.3. DST SETUP

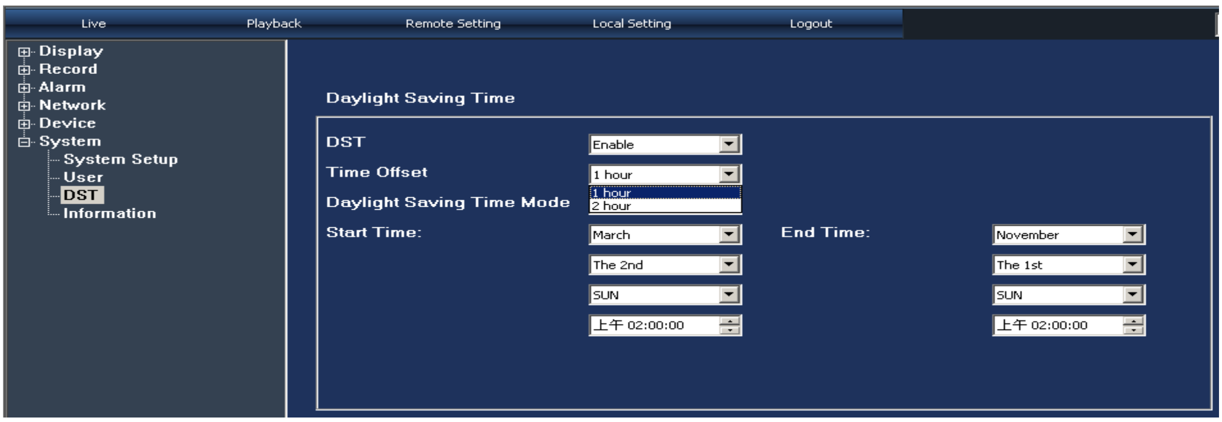
Step 1. Click **"DST"** option.



Step 2. Enable **"DST"**.



Step 3. Choose the offset time .

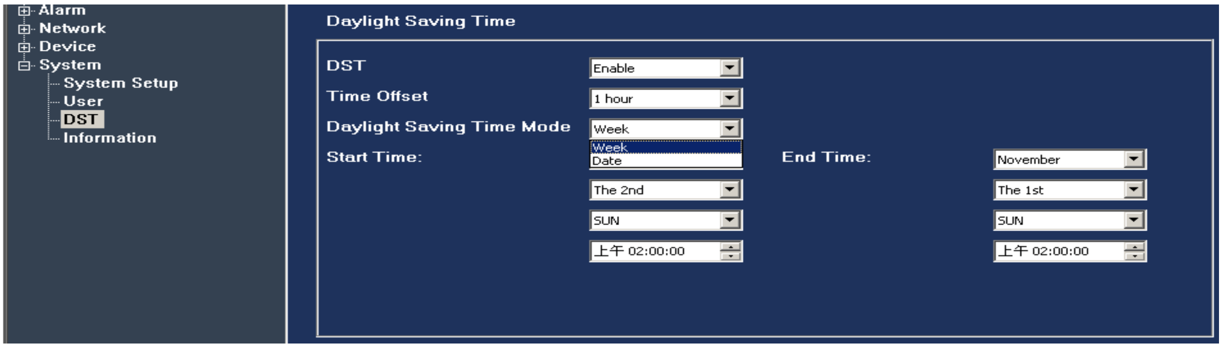


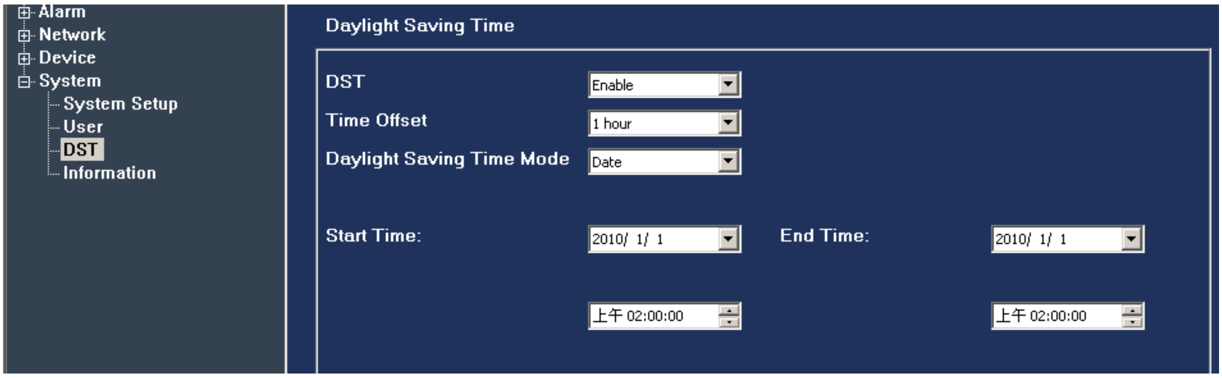
Step 4. Choose "**Daylight Saving Time Mode**".

There are 2 types of DST:

1.Choose by week

2.Choose by date



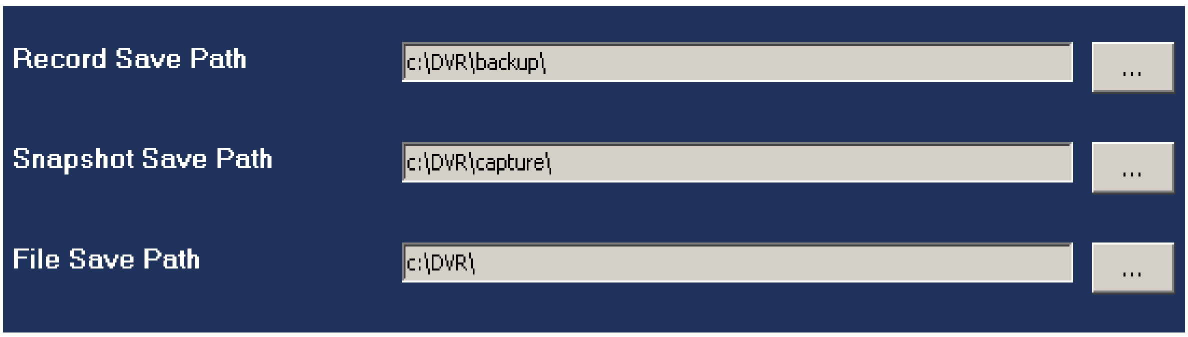


5.4.7.4. System information



5.5. Local Setting

This option allows you set **"Record Save Path"**, **"Snapshot Save Path"** and **"File Save Path"**.



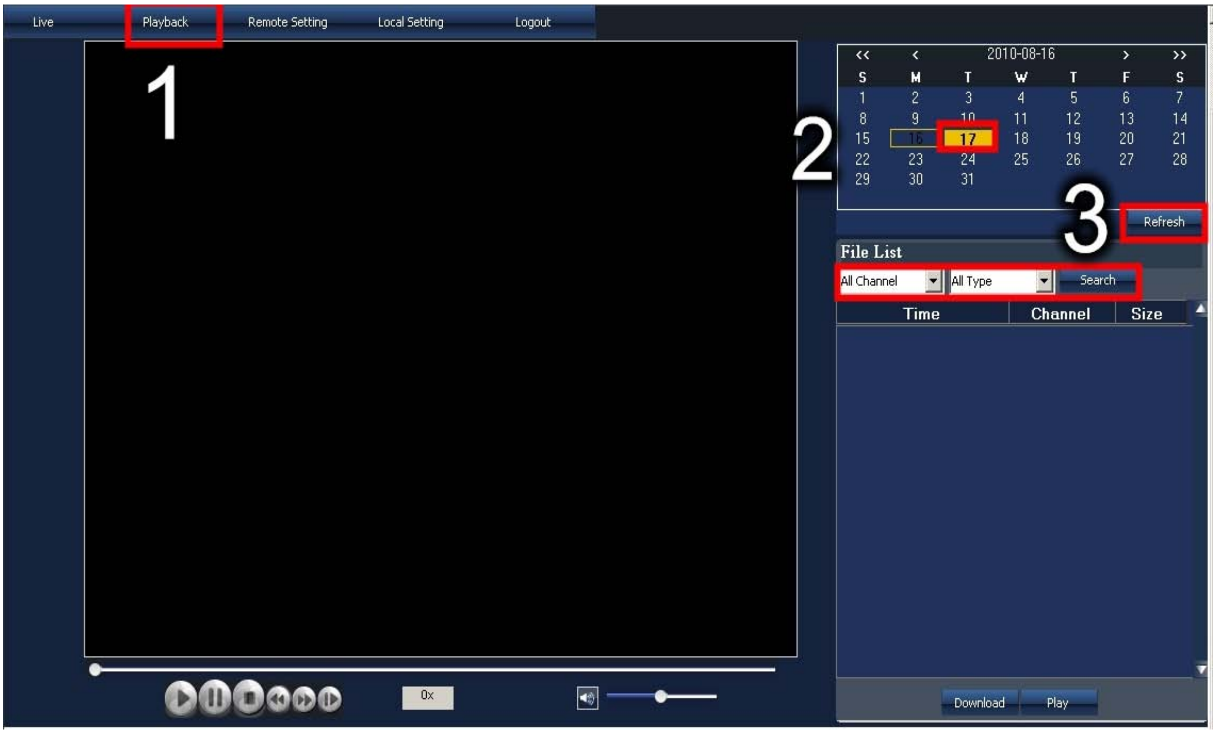
5.6. Playback (IE Browser):

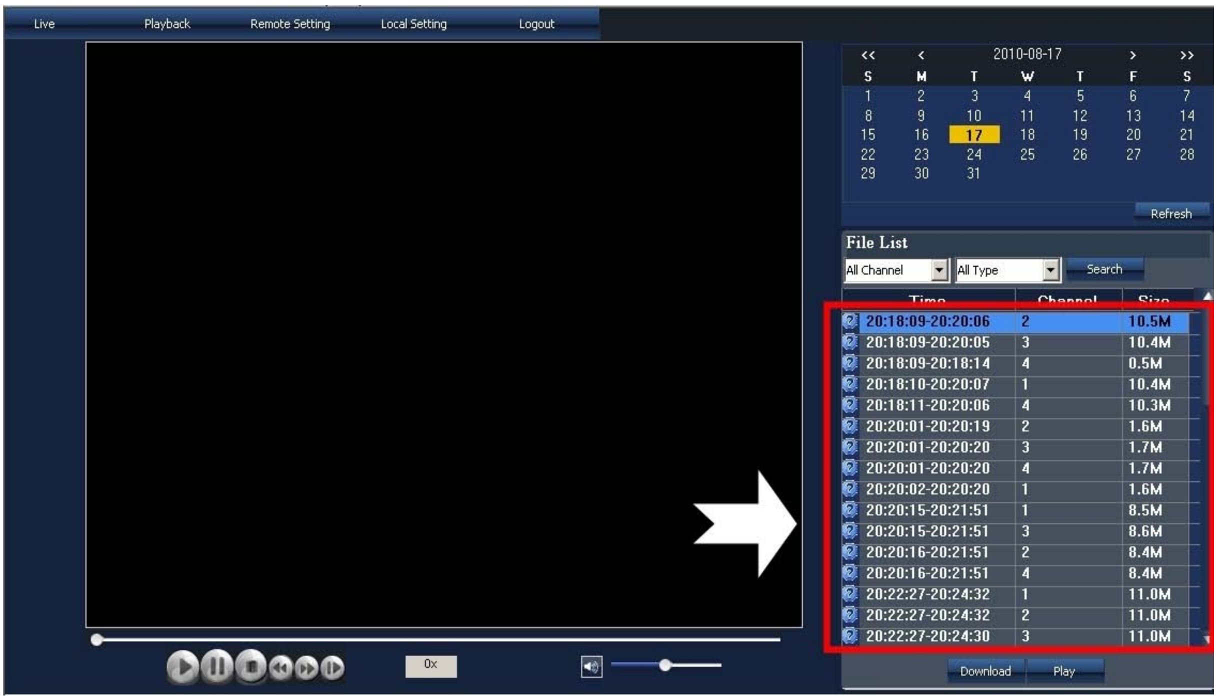
Step 1. Click **"Playback"** option.

Step 2. Click the date which you would like to playback.

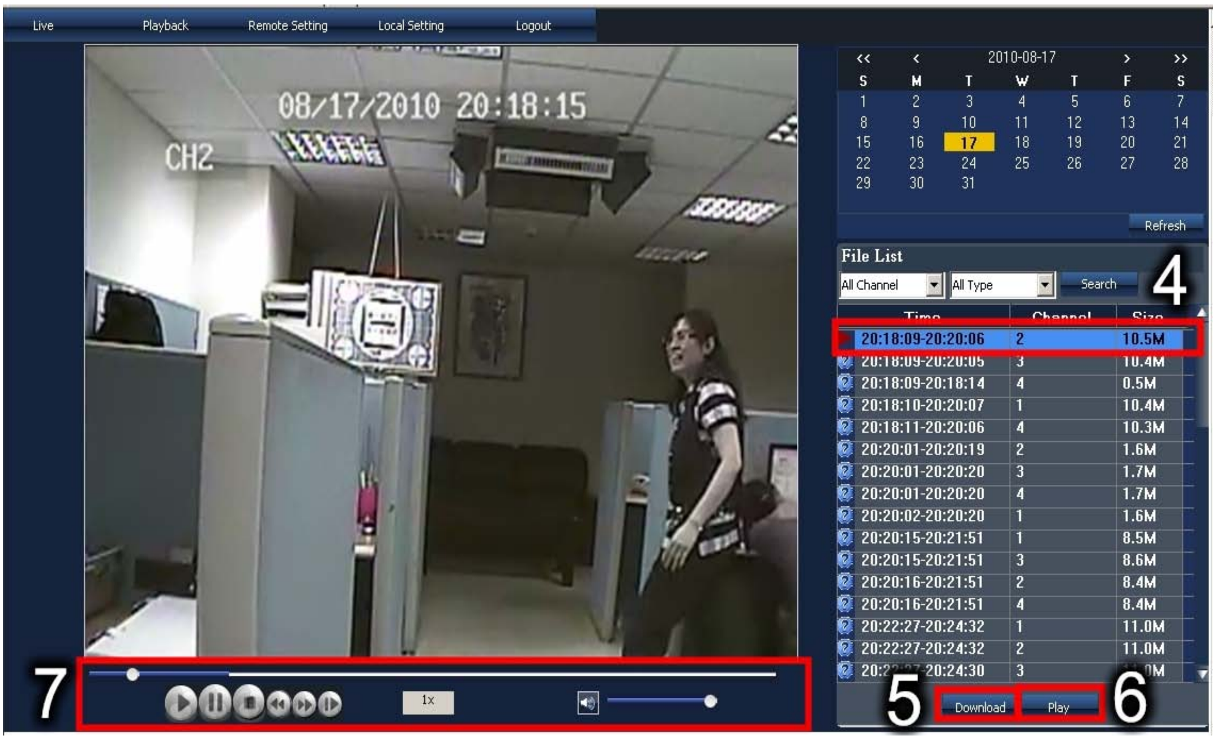
Step 3. Also, you can click Refresh button to search the video file again, or use file list to choose which channel you would like to playback, and then click on Search button.

***The video file list will be displayed.**





Step 4. Click specified video file which you would like to playback, remotely.
The video will be displayed.
When the video file is playing, the system won't allow you to download video files.

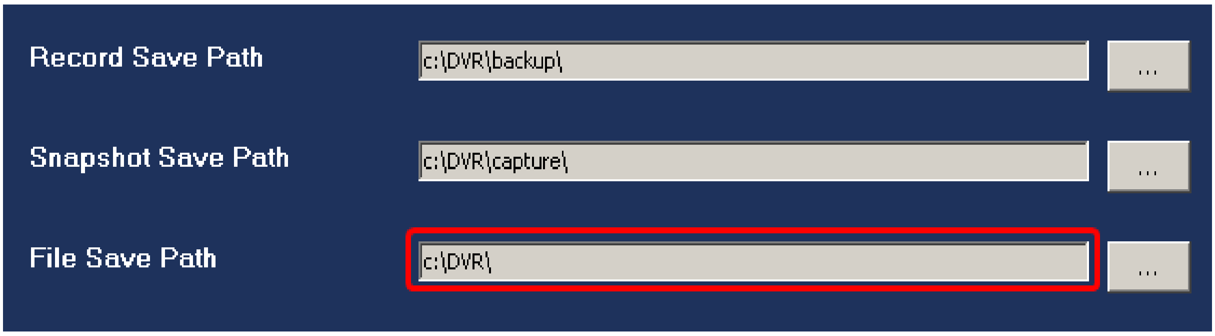


Step 5. Close the playing video and then click  button to download video file.

Step 6. When the video file was downloaded, the dialogue box will display.



*And you can check the file path, as below.



*Remote manual recording file will be saved to [**Record save path**]
*Local recording file will be saved to **[File save path]**
*Double-click any file listed or highlight any file and click **[Play]** button to play the selected recording file.
*Click **[Download]** button to download and save selected recording file to specified saving path.
*You can set **[Save Path]** option on the **[Local Setting]** option.
*The **"Play control option"** is located at the bottom of the display, include **[Play]**, **[Pause]**, **[Stop]**, **[Slow Play]**, **[Fast Play]**, **[Next Frame]** and **[Volume adjust]** option.

5.6.1. Logout

Click **[Logout]** option to return back Log-in page.

5.7. Mobile Phones Access

The DVR is currently compatible with mobile phones running Windows Mobile, Symbian, iPhone, Blackberry and Android operating system.

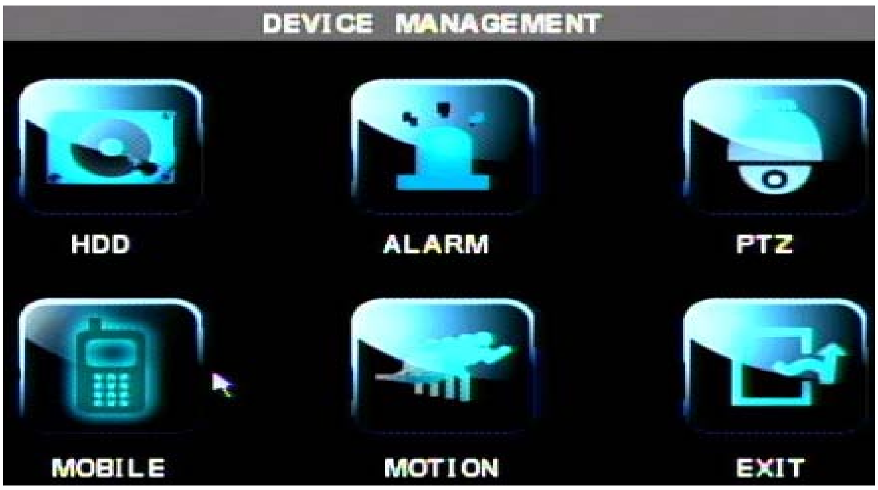
*Due to the model of mobile phone is variety, so we only provide 1 model for your reference, if you have any question of your mobile phone ,please refer to appendix J.

When your DVR is connecting internet through router, you need to forward the port at the virtual server option of your router. For more information, please refer to Appendix (mobile) in this section.

5.7.1. Mobile Setup

Before viewing the live image of DVR from mobile phones, you need to set the settings first. Also make sure that your DVR has connected to Internet.







All Functions	
USER NAME	The login user name of DVR
USER PASSWORD	The login Password of DVR
SERVER PORT	Mobile monitoring port. Setting range is between 1024 and 65535. Please note that the server port of DVR must with the same port of mobile .

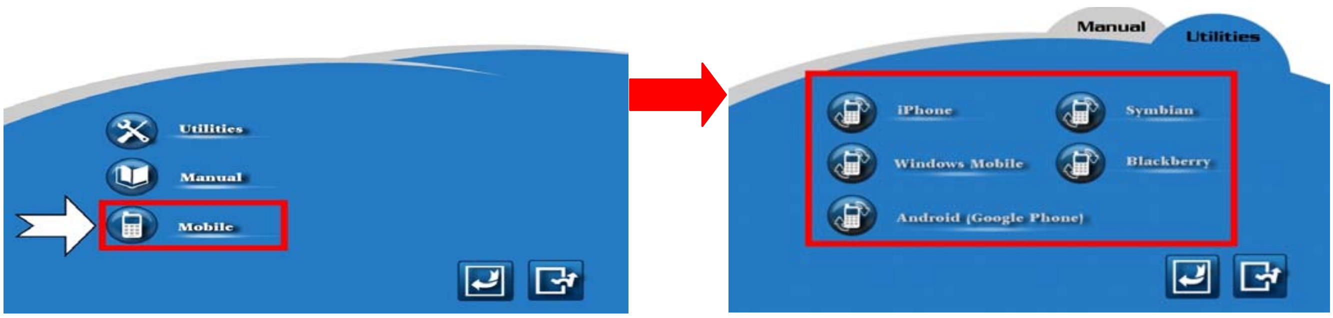
You also need to forward this port at the virtual server option of your router.

5.8. Install & Operate (Windows® Mobile Phones)

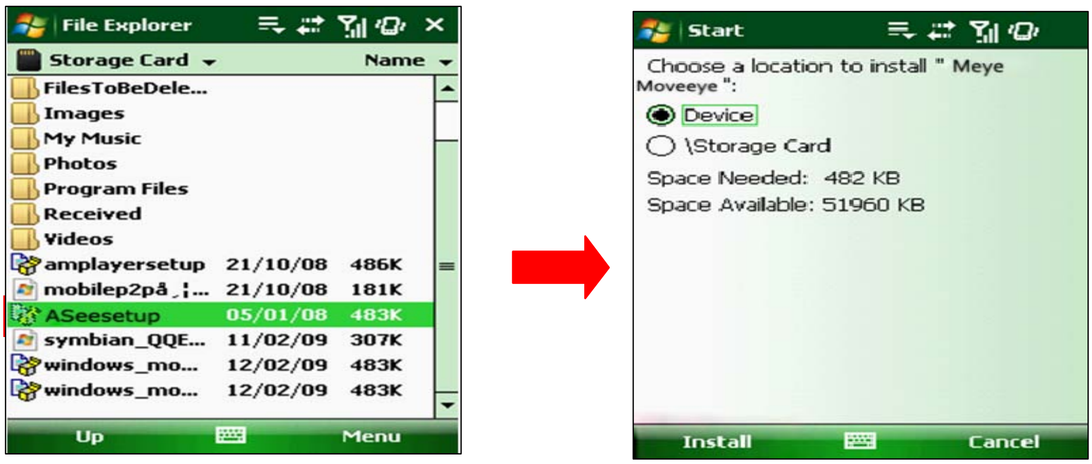
Step 1. Install the webcam program that is included on the supplied CD by  click icon.

Step 2. Click the type of mobile which you need from 5 icons.

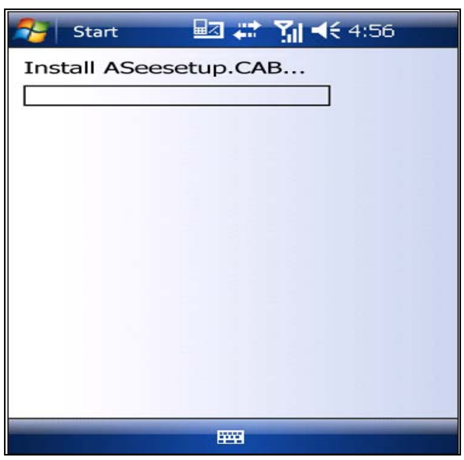
Step 3. Copying the **"Aseesetup.CAB"** file into mobile phone.



Step 4. Click **"ASeesetup"** and choose an installation location ,after the initialization.



Step 5. Click **"Install"** button to start the installation processing.



Step 6. After completed installation, click **"ASee"** icon to run the program.



Step 7. Key-in the information of DVR and Check  box.

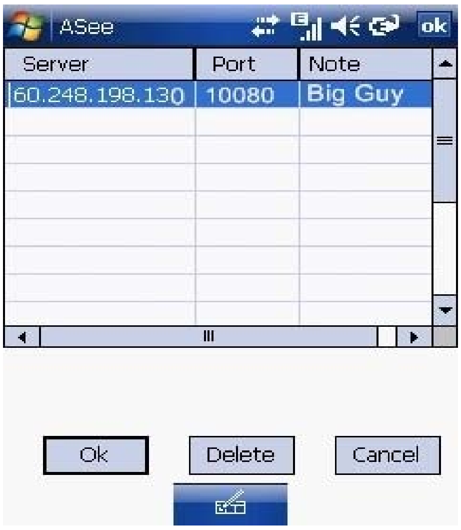




All Functions	
User's Name	Indicate that the user name which have been set on DVR-**[Mobile Set]** menu.
Password	Indicate that the password which has been set on DVR-**[Mobile set]** menu.
Server address	Indicate that public IP address connected to DVR or dynamic domain name used by DVR
Web port	Indicate the server port which has been set to your DVR.
Channel	Select one channel you want to monitor Click【**ok**】to confirm the above setting , and system will return back the previous menu.
Auto-connect	When tick-selecting **[Auto-Connect]** option, the mobile phone will be auto-connected to the DVR.

Because of the model of mobile is variety, so we just provide 1 model for your reference.
For more information please go to website:
http://www.htc.com/us/#/?slide=1

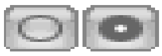
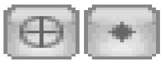
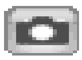
Step 8. Now, you can check the list of your connecting information.



Step 9. Press Ok button, to enter the main screen and to view the video.



Picture	Function key	Description
	【Items】	**【Channel option】** Click  button, to select the channel which you would like to view.
	【Connect/Disconnect】	Click the button to enter into the live image of the channel you selected

Function buttons in the bottom from Left to right for PTZ		
		**PTZ Direction**
		**Area Selection（ZOOM+、ZOOM-）**
		**Focus（focus +, focus-）**
		**Iris（I +,I -）**
		**Snapshot**

Please make sure that your PTZ setup of DVR is correct **(Section 4.8.)**, then you could control PTZ camera through your mobile phone.

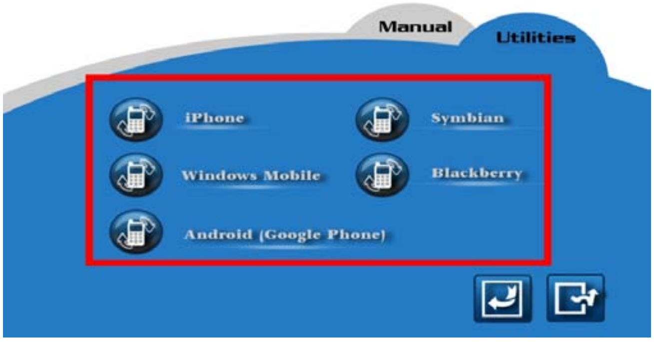
The captured images will be saved to the defaulted path (**Explorer→Program Files→Moveeye→Photo file**).

5.9. Install & Operate (Symbian® Phones)

Step 1. Install the program that is included on the supplied CD by copying the file to the mobile phone.

"ASee_AL_3rd _0723.sisx"(3RD EDITION) or **"See_AL_5th_0723.sisx"(5TH EDITION)**
***Click "Mobile" and then choose the software which you need.**



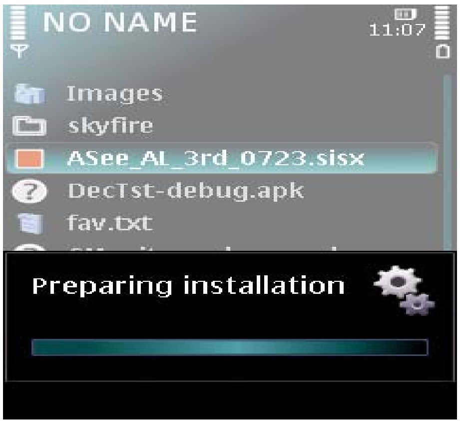


You can use the connecting cable which was included by mobile company ,and then connect the mobile phone to a computer and copying the file from the CD to the phone.

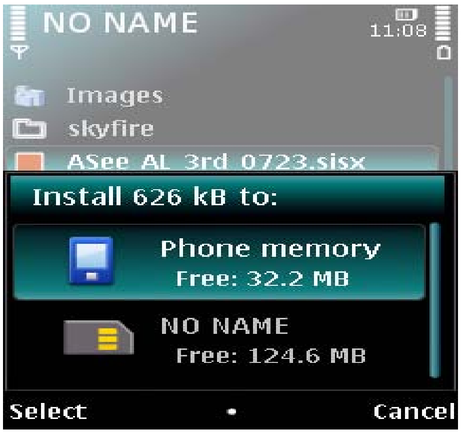
"ASee_AL_3rd_0723.sisx" apply to S60 - The 3rd edition operate system Mobile, and **"ASee_AL_5th_0723.sisx"** apply to S60 - The 5th edition operate system Mobile.



Step 2. Click the program **"ASee_AL_3rd _0723.sisx"** to start the installation.



Step 3. Choose Mobile card or SD card as an installation location.



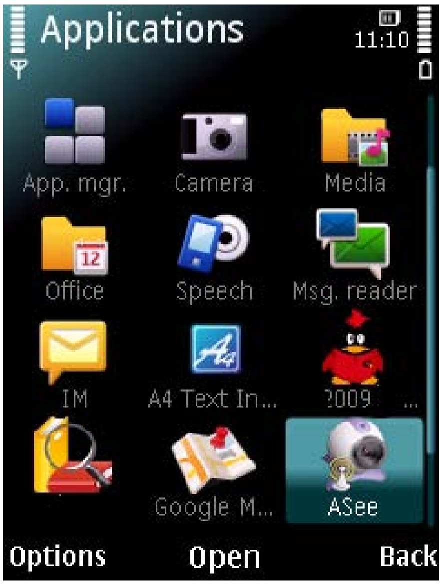
Step 4. Click **"Continue"** button to make sure the application program you installed may visit network or dial phone when popping-up the dialog box.



Step 5. After successful installation system will prompt you **"Installation Complete"**.



Step 6. If the program is installed into SD card, please enter into "**Application"** menu to find "**Mobile Viewer"** icon.



Step 7. Click **[Mobile Monitor]** icon to run the program, and then you will enter into the interface



(Function buttons in the bottom in turn are:)

1	CH 1 ; CH 2	7	Play & Pause
2	CH3 ; CH 4	8	Full/Normal Screen
3	PTZ Direction :left, right,	9	Snapshot
4	PTZ Direction: up, down	10	Setup
5	ZOOM+ focus + I+	11	Next CHs Group
6	ZOOM- focus- I -	12	Quit

The snapshot images will be saved to the defaulted path-**"File manager\Images"**.

Step 8. For first time using or Need some change on the Parameters, click the **[Setup]** button ,

you will enter into the window. Click **[Play]** button to enter into live display.



- **Default Access point：** Allow you select network type based on your mobile net environment.
- **Server address:** herein indicate public IP address connected to DVR or dynamic domain name used by DVR.
- **Web port:** indicate the server port which has been set to your DVR.
- **User Name：** herein input the user name which has been set on DVR-[Mobile Set] menu.
- **Password:** herein input the password which has been set on DVR-[Mobile Set] menu.
- **Channel:** Select the channel from the DVR you want to monitor.

Step 9. Click**[Done]** to confirm the above setting , and system will return back the previous menu.

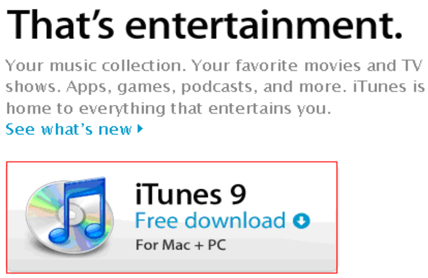




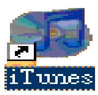
5.10. Install & Operate (iPhone®)

(A) Download iTunes

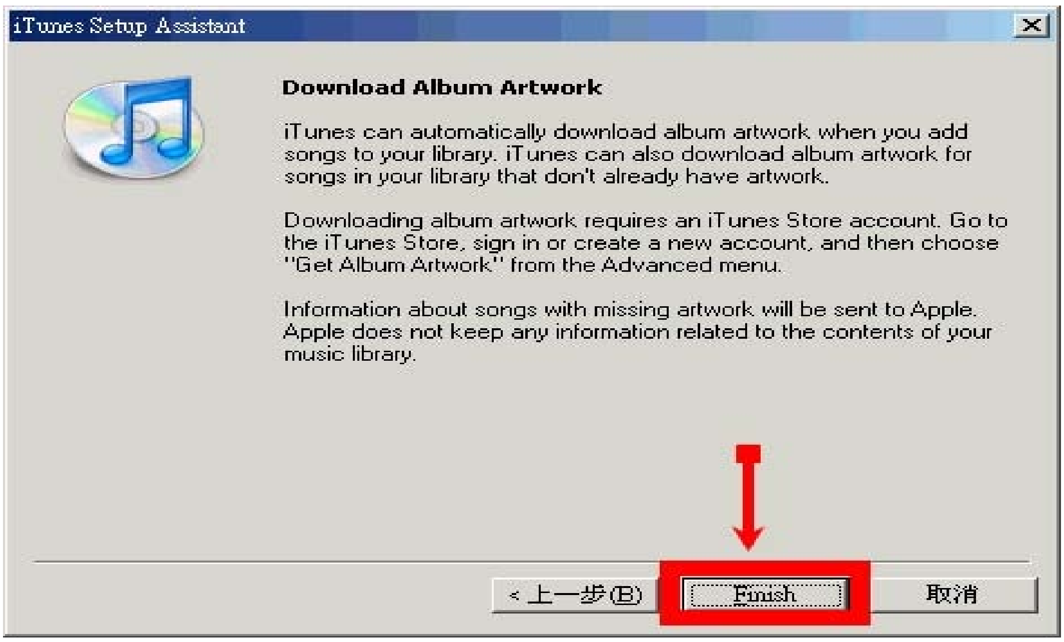
Step 1. Visit Apple website http://www.apple.com/itunes/ to download & install the **iTunes**.



Step 2. After download the file of iTunes , click "" icon to install it.

Step 3. After finished installation of iTunes, click ""icon or system will enter the login page ,automatically.

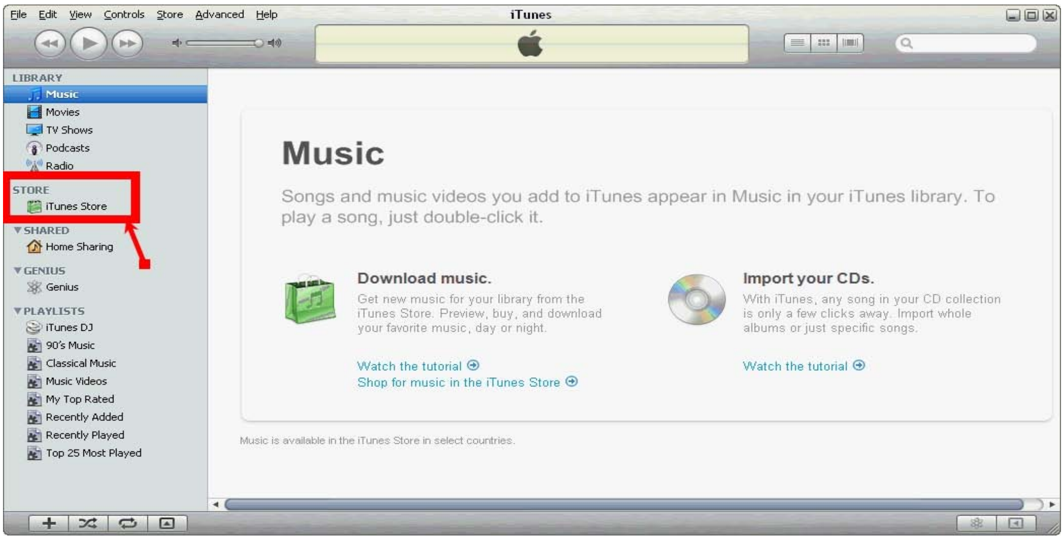
Step 4. Follow the setup procedures , and then click **"Finish"** button , to enter the iTunes store.



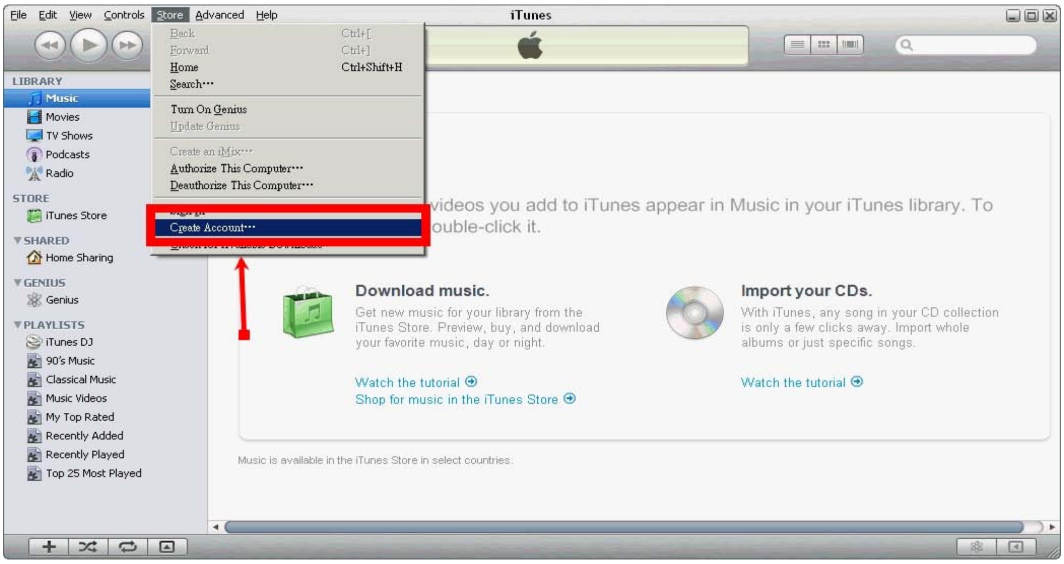
if you already sign in the membership, please proceed to the step 14.

Step 5. The login page will display.

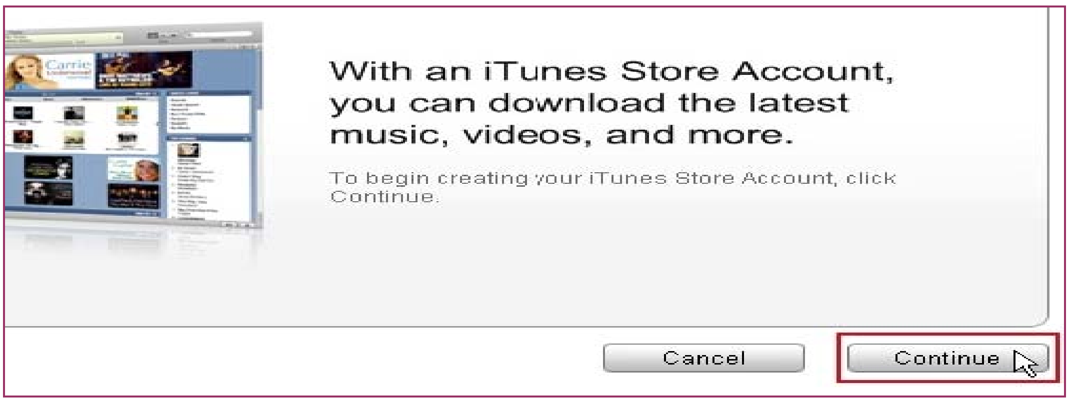
Click **"STORE→iTunes Store"** option.



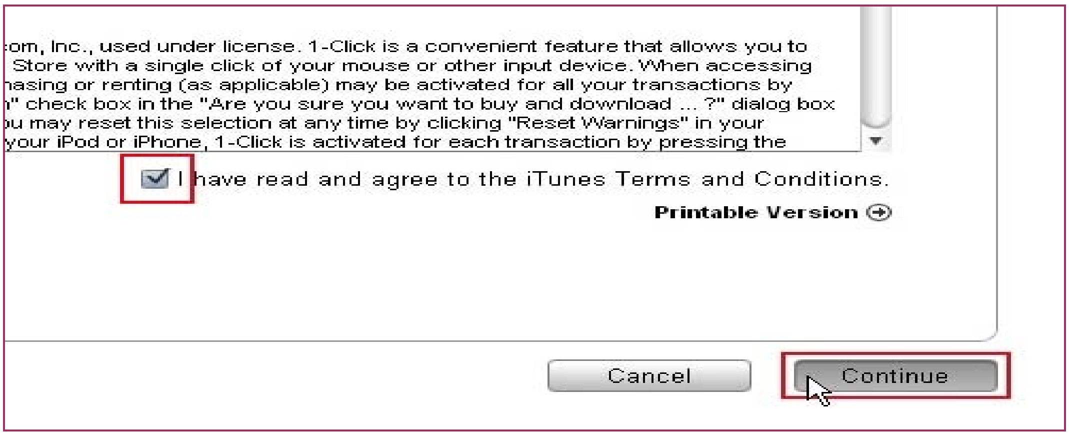
Step 6. Click on **"Store→Create Account"** to create your own account.



Step 7. Click **"Continue"** button to proceed next step.



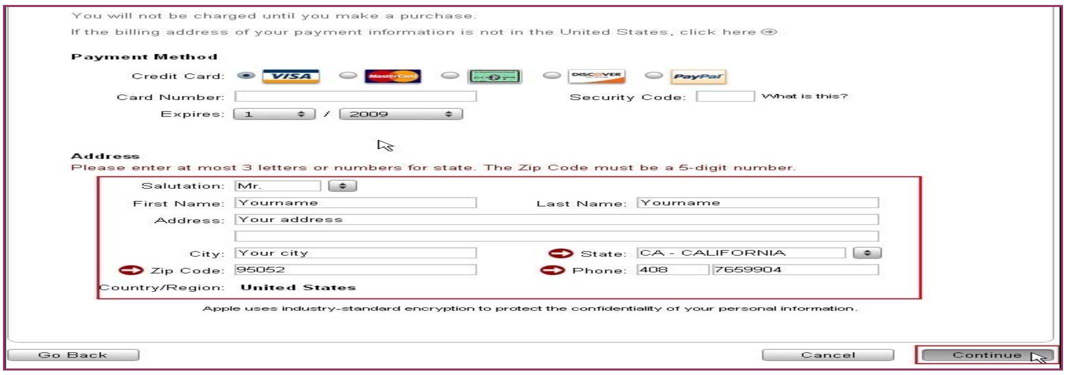
Step 8. Check the term and conditions, and then click **"Continue"** button.



Step 9. Create your personal account and fill out all information which was requested by system.
After fill-out all information .
Click **"Continue"** button to proceed next step.



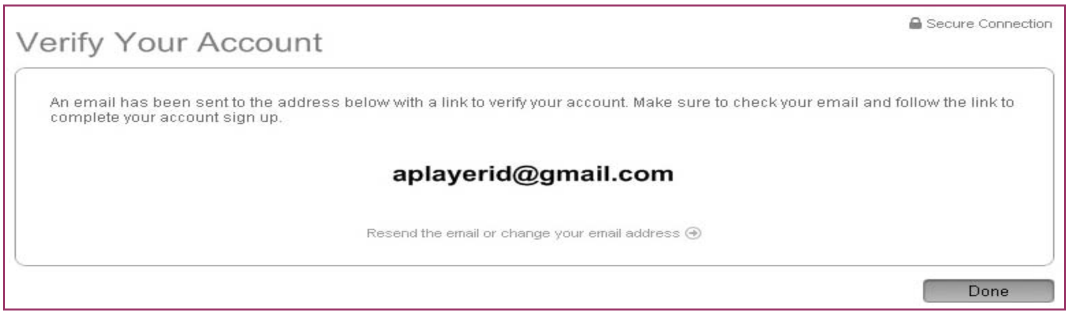
Step 10. Fill in your personal info & click **"Continue"** button.



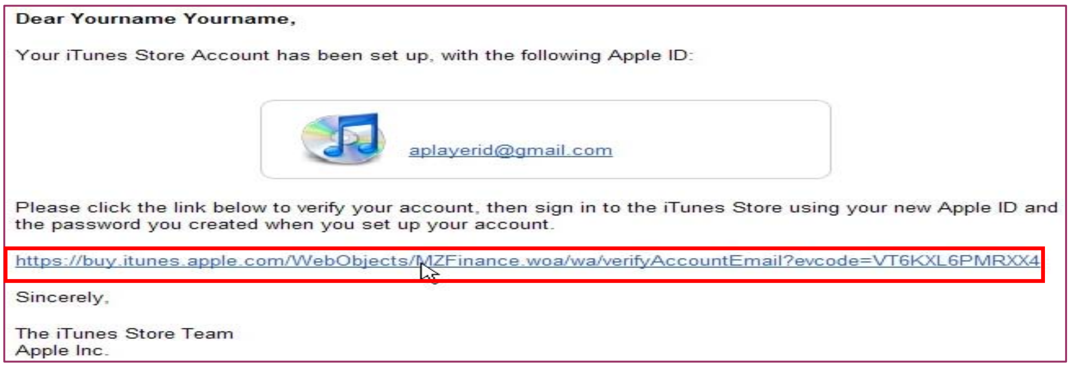
The options of Payment Method are different from different regions, please select another payment method.

"Asee" is free software & you don't need to pay for it.
***If you have any question of payment, please contact the local supplier of i-Phone .**

Step 11. Finished the register, and go to your email box to verify your account.



Step 12. Click the link included in the email message.



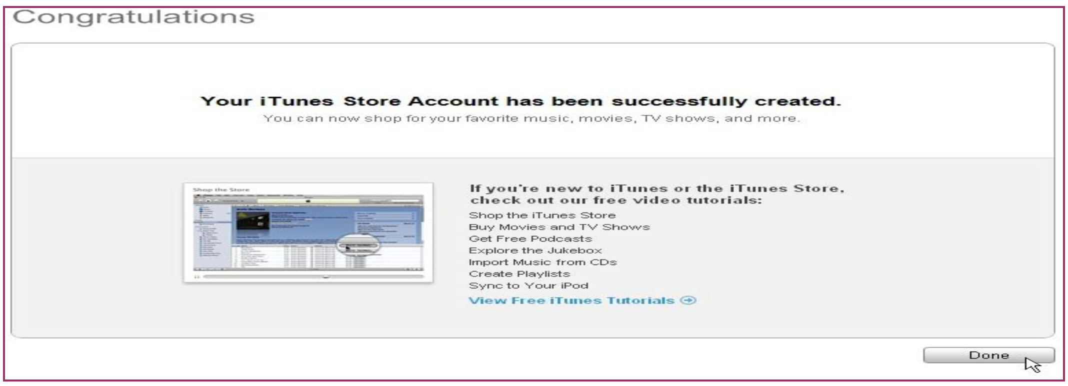
It will connect to the iTunes store and turn to iTunes interface.



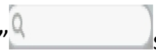
Step13. Sign in your account.

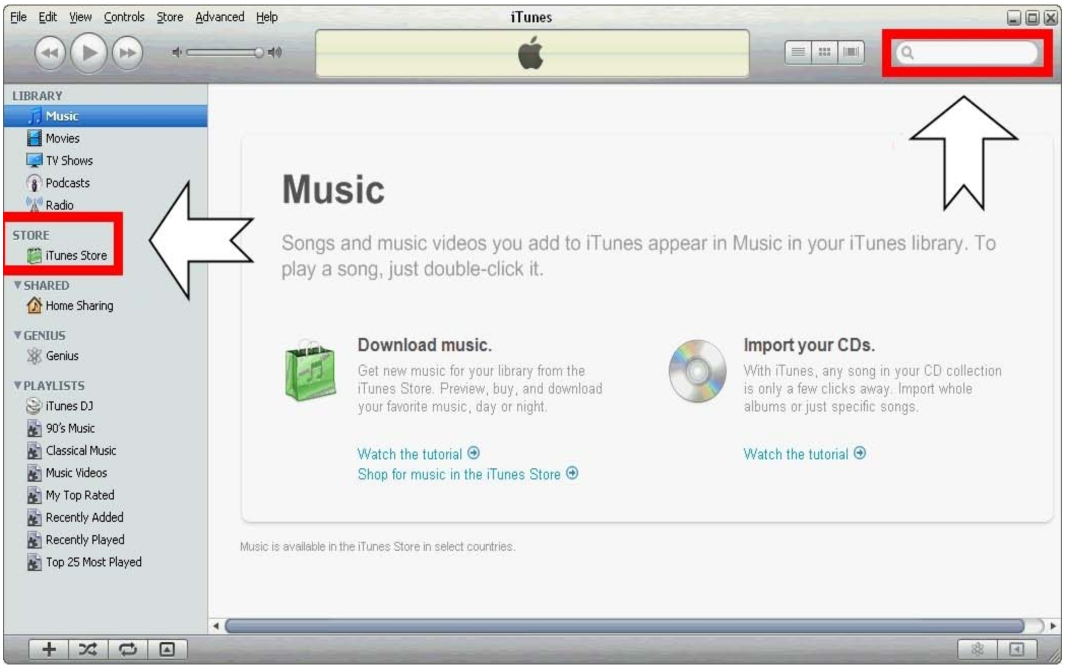


The register of your iTunes store account has been done.



Step 14. Click 

and then Key-in the characters **"ASee"** in the"search" column .

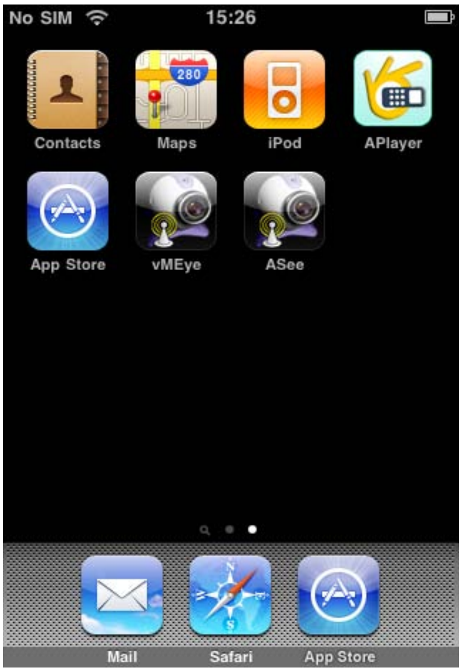


For connecting cable, please contact your local i-Phone service.

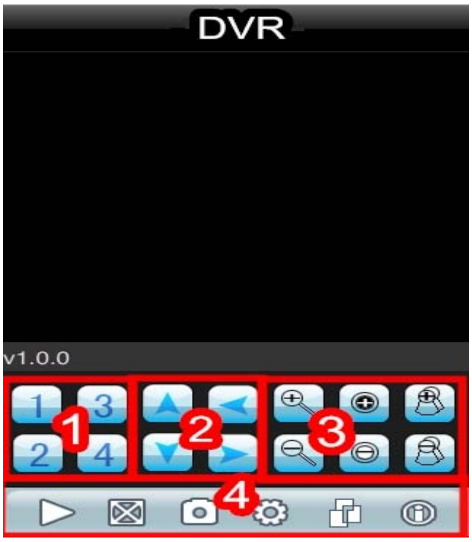
Or go to i-phone website for support : http://www.apple.com/support/iphone/

Step 15. Download and install the **"ASee"** program to your mobile by connecting cable.

Step 16. After finishing installation, "**ASee"** icon will be displayed to mobile phone interface.



Step 17. Click , "**ASee"** icon to enter the main screen, as below:



Functions	
1	Channels select.
2	PTZ Lens control (Area Selection (ZOOM+、ZOOM-) , Aperture (I+,I -) , Focus (focus +, focus-))
3	PTZ Direction (left, right, up, down)
4	Function buttons from left to right in turn are: Pause, Full-screen, Snapshot, setup, help and Access setup.

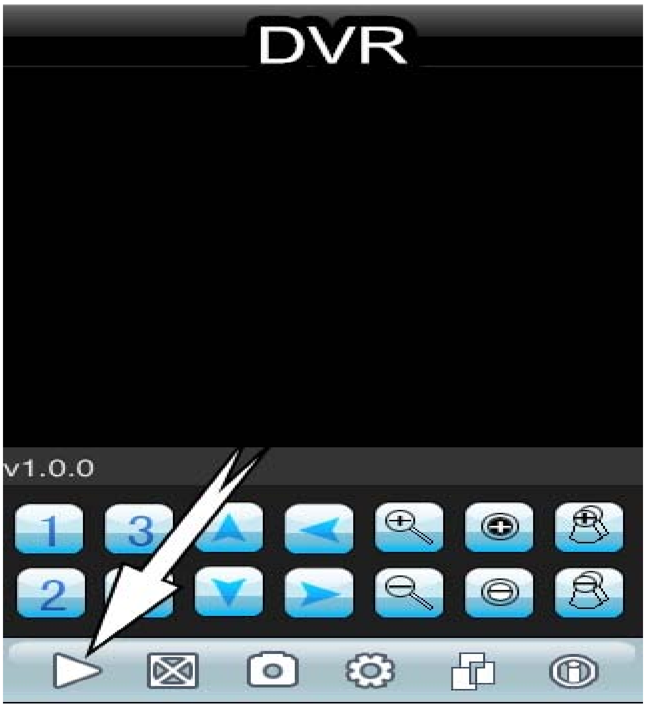
 We have introduced Monitor point setting in the previous Symbian and Windows system setting. The setting method for iPhone is same as the Symbian and Windows system. Please refer to the previous section.

Step18. Setting the connecting information of DVR.



Step 19. Click "" button, to back to main screen.

Step 20. Click **"Play & Pause** **"** button, to view videos, remotely .


DVR
v1.0.0
1
3
2


DVR
Playing
1
3
2
4

5.11. Installation & Operation (Blackberry Mobile)

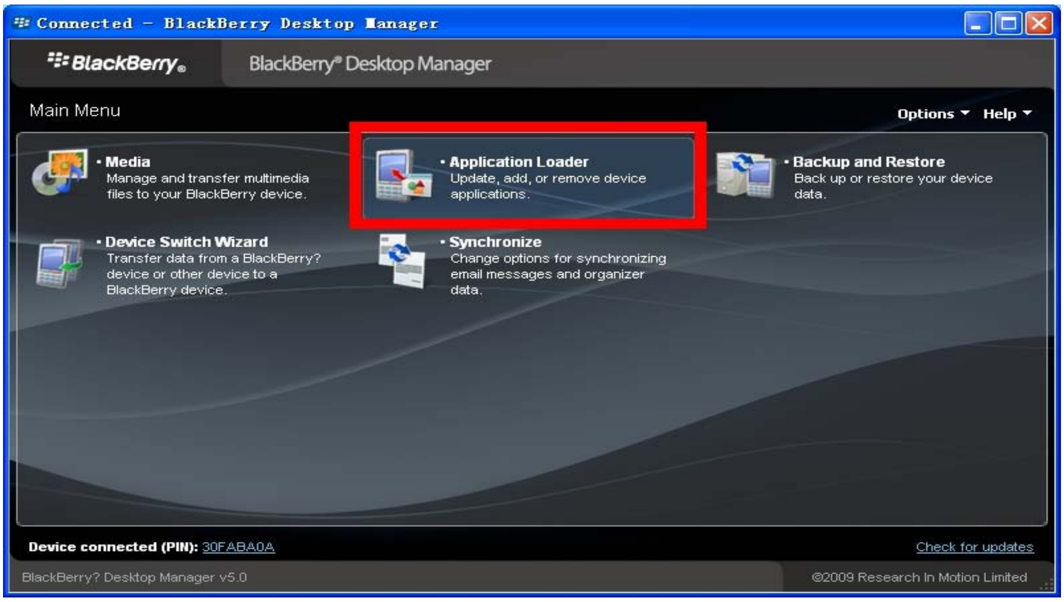
5.11.1. Installation

Step 1. Download and Install the Blackberry Desktop Manager on the computer.

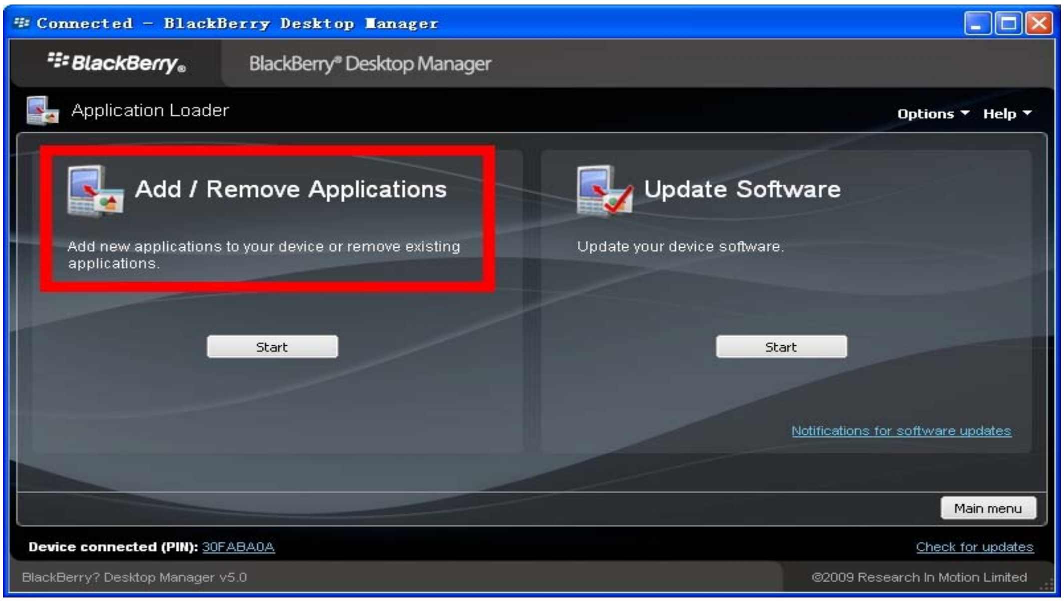
Step 2. Connect your Mobile to your PC via USB cable.

Step 3. Open the Desktop Manager.

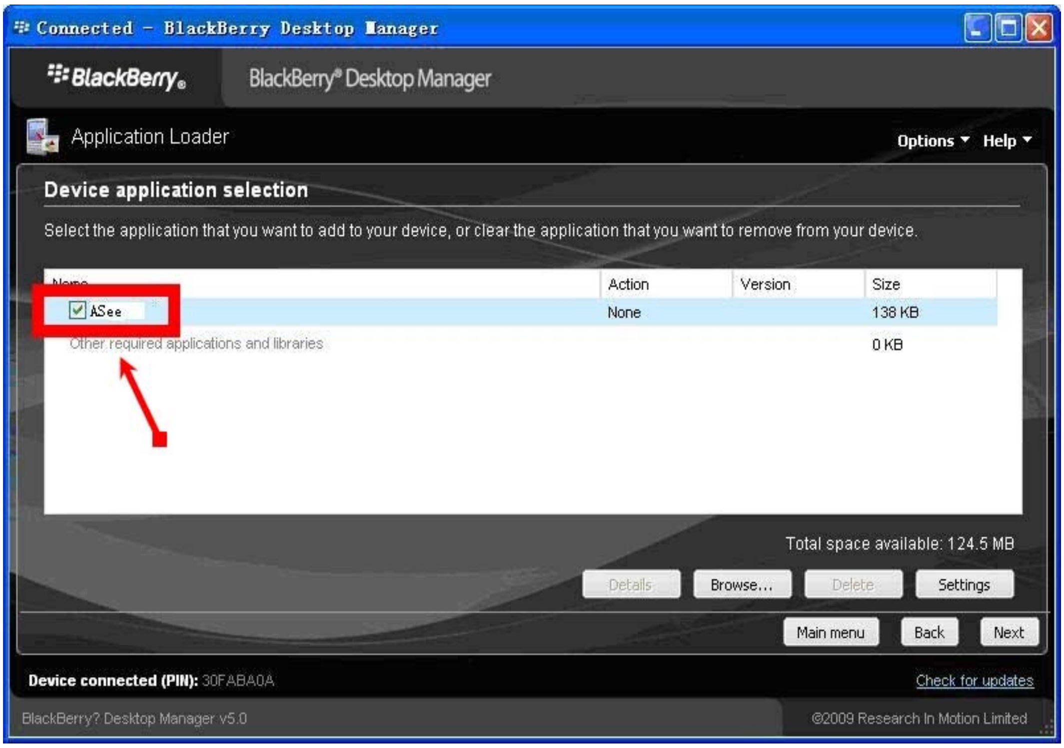
Step 4. Choose '**Application Loader'** from the Main Menu.



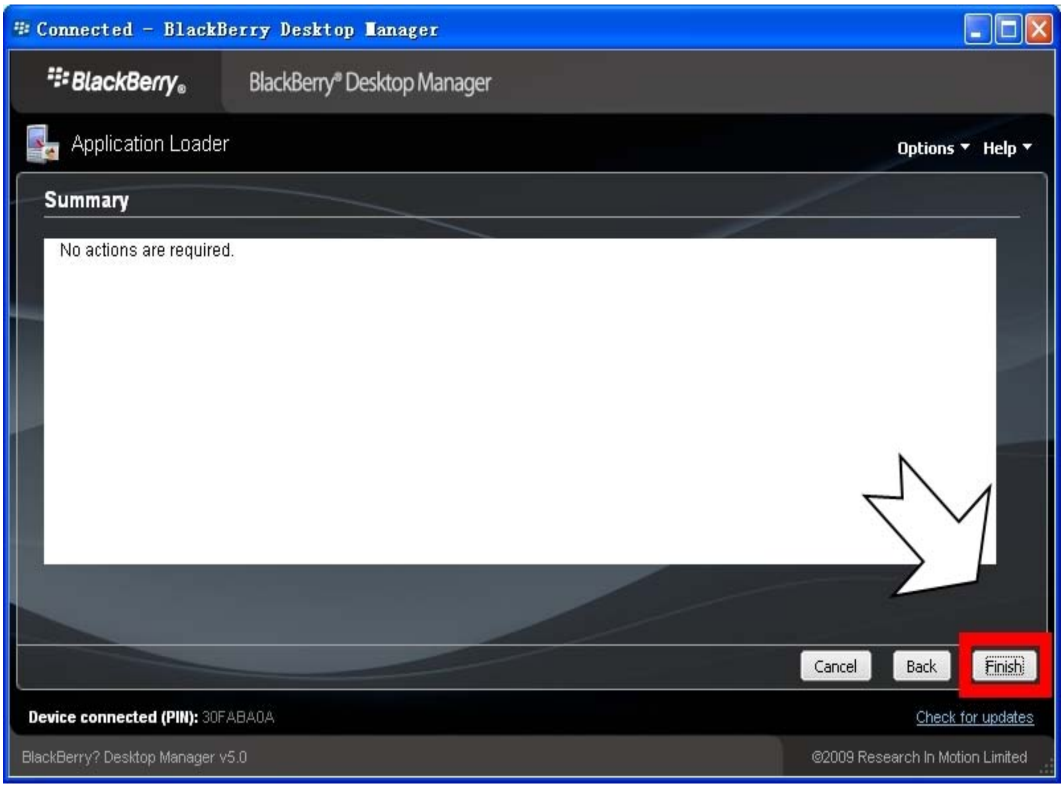
Step 5. Click "**Start"** Button on the "**Add/Remove application"** menu.



Step 6. Click “**Browse”** button and check the **“ASee.alx”** file.

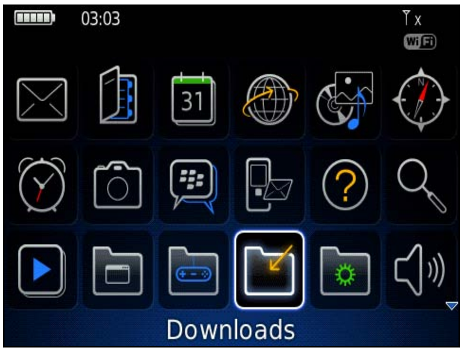


Step 7. Click **“Finish”** button to finish the installation.



5.11.2. Setup & Operation

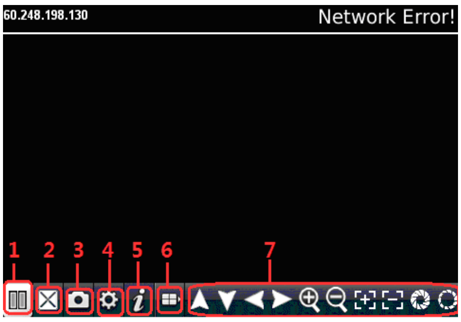
Step 1. The Blackberry viewer will be installed to the **"Downloads"** directory.



Step 2. Enter into the **"Downloads"** directory, and then click the **"ASee'** icon.



Step 3. Enter into the below interface.



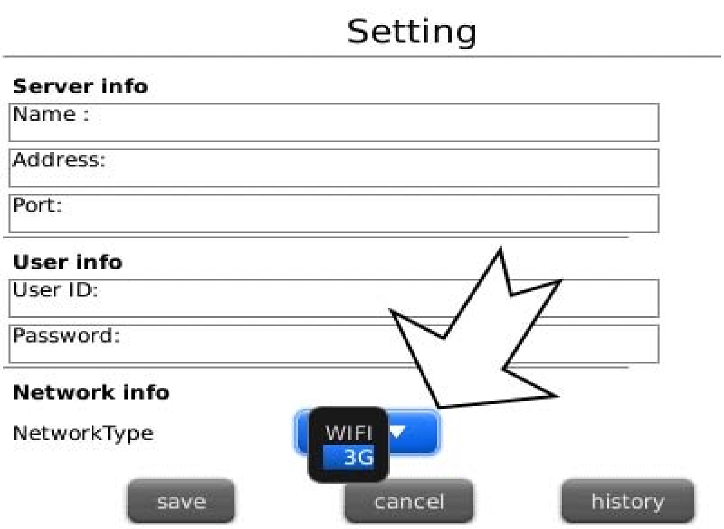
1 ---Connect/disconnect
2 ---Full screen
3 ---Snapshot
4 ---Setup
5 ---Help
6 ---Next page
7 ---PTZ Control

Step 4. Click  icon to setup the information of DVR





Step 5. Select the Network Type supported by Blackberry phone.



Step 6. Click "save" button to save the setting.

Step 7. Click **Next Page'** icon to search "**Channel"** option, and then choose the channel which you would like to display.

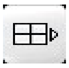


Step 8. Click  **play** icon to view video.



Step 9. Click "**Full screen"** icon to enter into full screen display mode, again click the "**Trackball"** button of mobile to quit the full screen mode.



Step 10. Click  **Next page"** button to find the "**PTZ Control"** icon and enter into the mode. Now you could freely control your PTZ camera through your Mobile phone.



Step 11. Click "**Close**" button to exit the program .



For further information just click "Help" button to view the software's Help instruction.

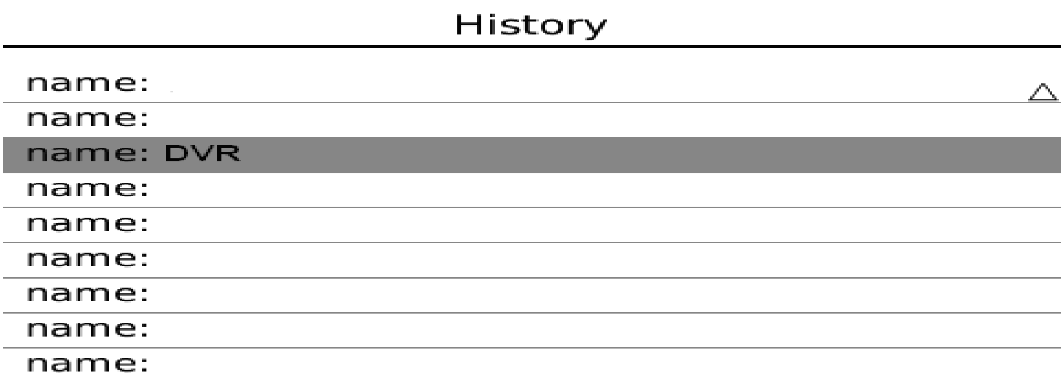
if your mobile had connect to other DVR, you can delete it , as below.

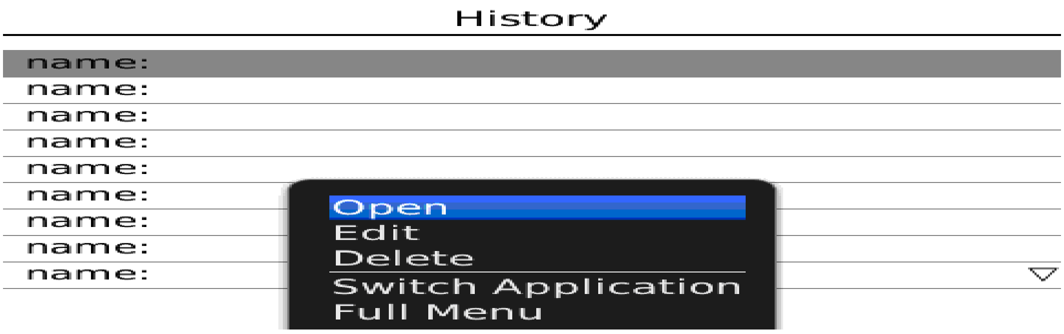
Step 1. Click the " 

" button to enter into the History List.



Step 2. Highlight one record and click "**Enter**" button to enter into pop up menu.
When selecting "**Open**" option, system will directly be connected to the DVR and defaulted to display the CH1.

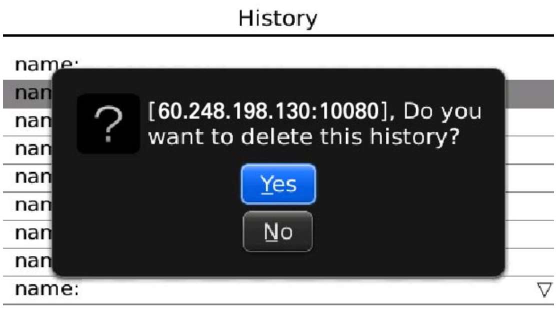




Step 3. When selecting "**Edit**" option, system will allow you edit the history record.

Step 4. When selecting "**Delete**" option, the history record will be deleted.

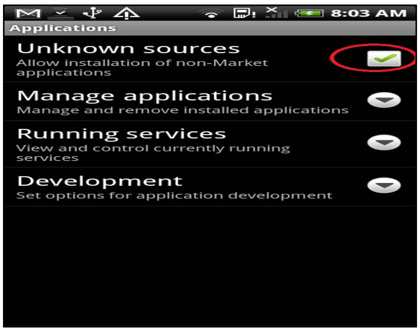




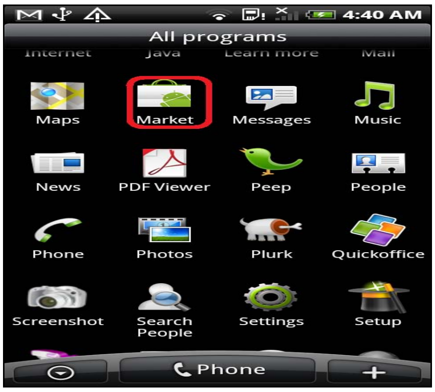
5.12. Android Mobile

*Please make sure that the software is compatible with your Android Mobile.

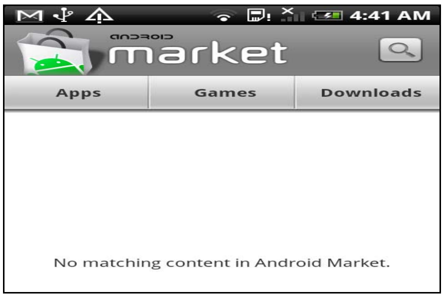
Step 1. Make sure your mobile have been connected to network and could download the software.



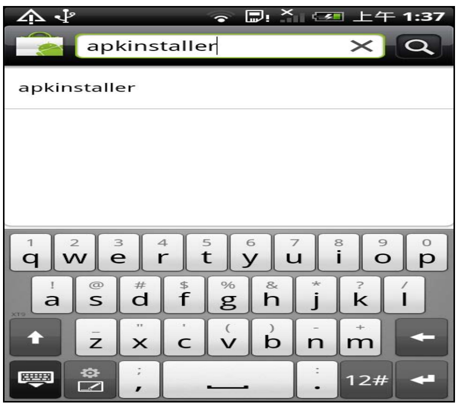
Step 2. Enter into "**Program"** option and highlight "**E-market"** icon .



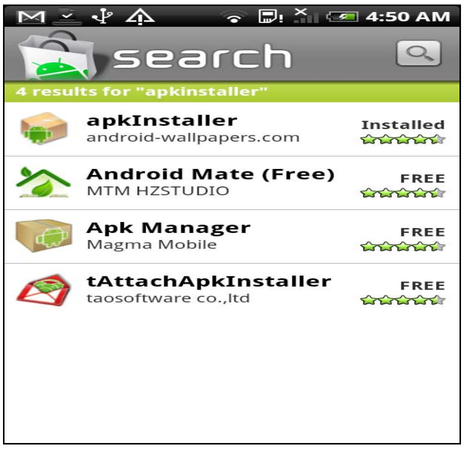
Step 3. Enter into the **"E-market"** interface .

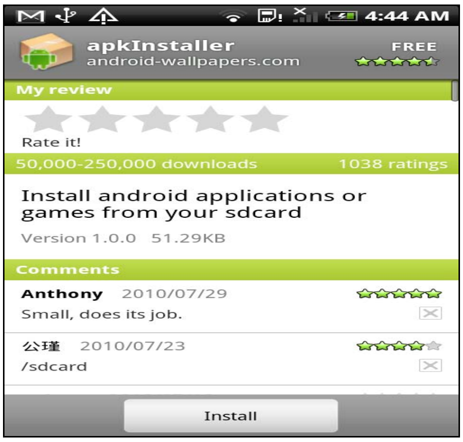


Step 4. Click  icon on the upper right corner and key-in**"Apkinstaller"** to search the Apkinstaller program.

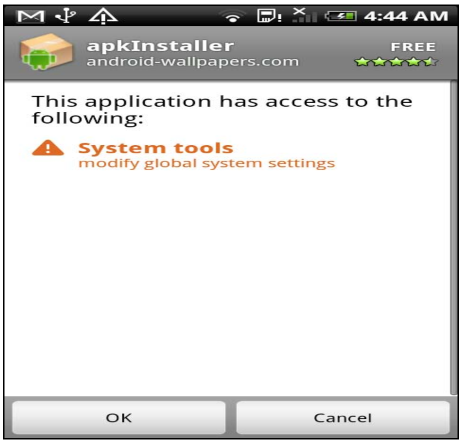


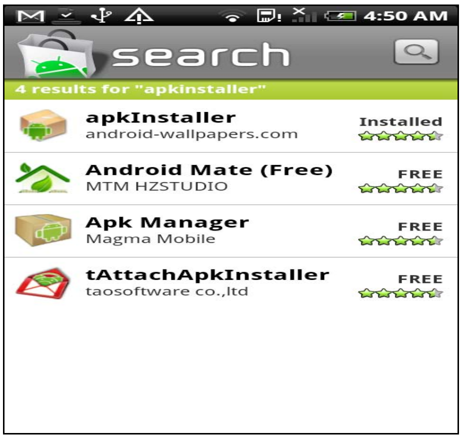
Step 5. Highlight and install the program which was searched by system.





Step 6. Proceeding to the next step for installation.





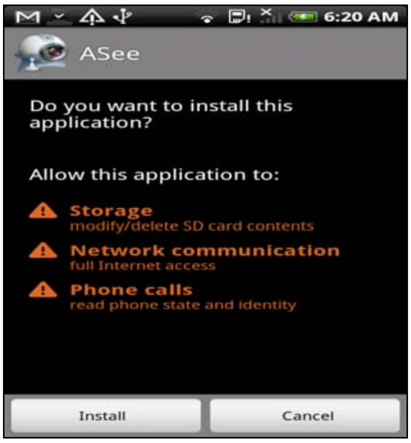
Step 7. Enter into **"Program"** file and click **"**  **ApkInstaller"** icon.

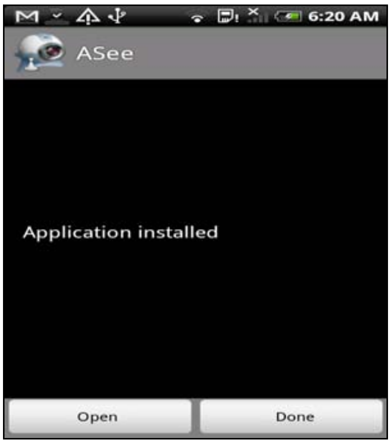


Step 8. Find the **"ASee.apk"** file you would like to install.



Step 9. Click the software to install to your phone.



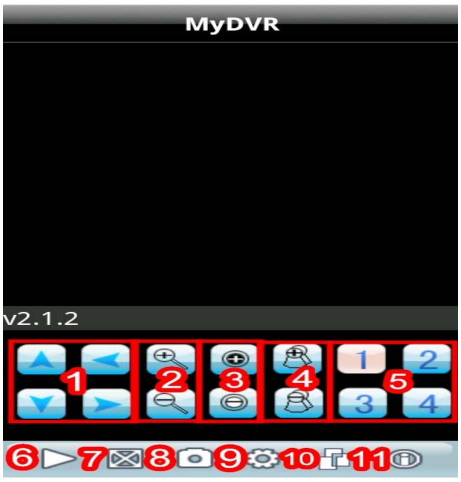


Step 10. Enter into **"Program"** option to click **"**

ASee" icon .



Step 11. Enter into **“ASee”** main screen.



1		PTZ Direction	2		Zoom+ -
3		Aperture	4		Focus+ -
5		CH Selection	6		Play & Pause
7		Full/Normal Screen	8		Snapshot
9		Setup	10		CH change
11		Help			

Step 12. Click **“Setup”** button**(9)**, to set the **“Device info”**.



All Functions	
Address	Key-in the IP address of the DVR
Port	Key-in the Mobile Port Number of the DVR
Device Name	Key-in DVR name (Customize)
User ID	Key-in the User’s Name
Password	Key-in the User’s Password

Step 13. Click "Back" button, to back to previous page.



Step 14. Click **"Play & Pause"** button, to view videos , remotely.



When your DVR is connecting internet through router, you need to forward the port at the virtual server option of your router.

For more information, please refer to Appendix (mobile) in this section, as below:

5.13. Forwarding the port of Router for Mobile phone

Step 1. Setup the IP address and port of DHCP**(3)**,and the click on "Apply" to confirm settings.

***The DHCP setting is for your reference only, there are 2 types of different internet→ PPPoE & Static IP.**

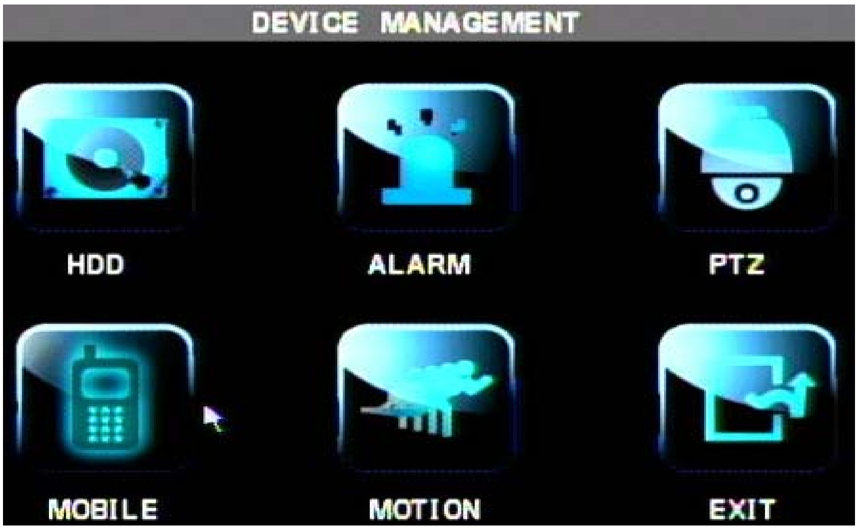






Step 2. Click **"Device"** icon and then click **"Mobile"** icon.





Step 3. key-in the user name and password as well as server port.
*The port the mobile must the same as server port.

Step 4. Click **"Apply"** button.



Chapter 6. Specifications

Model	SEC-DVR404	SEC-DVR408
Video Compression	H.264	
Video System	NTSC / PAL	
Operation System	Linux	
Video Input / Output	BNC 4-channels / VGA 1-channel ; BNC 2-channels	BNC 8-channels / VGA 1-channel ; BNC 2-channels
Audio Input / Output	4-channels / 2-channels	4-channels / 2-channels
Audio Compression	8kHz*16bit ADPCM	
Display Frame Rate	PAL: 100 fps NTSC: 120 fps	PAL: 120fps NTSC: 240fps
Playback Resolution	**NTSC**: CIF(352x240), HD1(704x240), D1(704x480) **PAL**: CIF(352x288),HD1(704x288), D1(704x576)	**NTSC**: CIF(352x240), HD1(704x240), D1(704x480) **PAL**: CIF(352x288),HD1(704x288), D1(704x576)
Recording Frame Rate	**NTSC**: 60fps@D1,120fps@HD1/CIF **PAL**: 50fps@D1,100fps@HD1/CIF	**NTSC**: 60fps@D1,120fps@HD1,240fps@CIF **PAL**: 50fps@D1,100fps@HD1,200fps@CIF
Recording Mode	Continue / schedule: motion detection	
Recording Pack Time	15/30/45/60mins file time selectable	
HDD Interface	One fixed HDD rack, supports up to 2TB SATA HDD	
Network Interface	RJ45, 10M/100M	
Network Protocol	Supports TCP/IP, DHCP,DDNS, PPPoE	
Network Function	Supports live view with IE (Internet Explorer)	
USB 2.0	USB mouse, USB disk (backup, upgrade)	
Playback	**Local:** Playback 4 channels at the same time	**Local:** Playback 8 channels at the same time
Playback Search	Date/time, file list	
Playback Mode	PLAY / FWD/ Fast/Rewind/ Frame by Frame	
Backup	Backup via USB flash disk, USB HDD disk, USB CD/DVD-RW & Network	
PTZ Control	RS485 built-in, supports PELCO-P & PELCO-D	
Alarm Mode	Motion Detection, Video loss, HDD loss, HDD full	
Power Supply (power adaptor included)	DC 12V/3A	
Working Temperature	50°F to 104°F (10℃ to 40℃)	
Dimension (WxDxH)	300*224*55mm	
Weight (with package)	2.85 kg	2.9 kg

Chapter 7 Appendix

Appendix A – Time Zone Table

Time Zone	Offset	DST	Start	End
Samoa	GMT – 11:00			
Hawaii	GMT – 10:00			
Alaska	GMT – 09:00	ˇ	Mar, 2nd Sun, 2:00	Nov, 1st Sun, 2:00
Pacific Time (US & Canada)	GMT – 08:00	ˇ	Mar, 2nd Sun, 2:00	Nov, 1st Sun, 2:00
Arizona, US Mountain	GMT – 07:00			
Chihuahua, La Paz, Mazatlan	GMT – 07:00	ˇ	May, 1st Sun, 2:00	Sep, last Sun, 2:00
Mountain Time (US & Canada)	GMT – 07:00	ˇ	Mar, 2nd Sun, 2:00	Nov, 1st Sun, 2:00
Central America, Saskatchewan	GMT – 06:00			
Central Time (US & Canada)	GMT – 06:00	ˇ	Mar, 2nd Sun, 2:00	Nov, 1st Sun, 2:00
Guadalajara, Mexico City, Monterrey	GMT – 06:00	ˇ	May, 1st Sun, 2:00	Sep, last Sun, 2:00
Bogota, Lima, Quito, Indiana (East)	GMT – 05:00			
Eastern Time (US & Canada)	GMT – 05:00	ˇ	Mar, 2nd Sun, 2:00	Nov, 1st Sun, 2:00
Atlantic Time (Canada)	GMT – 04:00	ˇ	Mar, 2nd Sun, 2:00	Nov, 1st Sun, 2:00
Caracas, La Paz	GMT – 04:00			
Santiago	GMT – 04:00	ˇ	Oct, 2nd Sun, 0:00	Mar, 2nd Sun, 0:00
Newfoundland	GMT – 03:30	ˇ	Apr, 1st Sun, 2:00	Oct, last Sun, 2:00
Brasilia	GMT – 03:00	ˇ	Oct, 3rd Sun, 2:00	Feb, 3rd Sun, 2:00
Buenos Aires, Georgetown	GMT – 03:00	ˇ	Oct, 3rd Sun, 2:00	Feb, 2nd Sun, 2:00
Greenland	GMT – 03:00	ˇ	Mar, last Sun, 1:00	Oct, last Sun, 1:00
Mid-Atlantic	GMT – 02:00	ˇ	Mar, last Sun, 2:00	Sep, last Sun, 2:00
Azores	GMT – 01:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Cape Verde	GMT – 01:00			
Casablanca, Monrovia	GMT + 00:00			
Dublin, London	GMT + 00:00	ˇ	Mar, last Sun, 1:00	Oct, last Sun, 2:00
Western Europe, Central Europe	GMT + 01:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
West Central Africa	GMT + 01:00			
Eastern Europe	GMT + 02:00	ˇ	Mar, last Sun, 0:00	Oct, last Sun, 1:00
Cairo	GMT + 02:00	ˇ	Apr, last Fri, 2:00	Sep, last Fri, 2:00
Harare, Pretoria	GMT + 02:00			
Helsinki, Kyiv, Riga, Sofia, Tallinn	GMT + 02:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Jerusalem	GMT + 02:00	ˇ	Apr 1, 2:00	Oct, 2nd Sun, 2:00
Baghdad	GMT + 03:00	ˇ	Apr 1, 3:00	Oct 1, 4:00
Kuwait, Riyadh, Nairobi	GMT + 03:00			
Moscow, St. Petersburg, Volgograd	GMT + 03:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Tehran	GMT + 03:30	ˇ	Mar, 4th Tue, 2:00	Sep, 4th Thu, 2:00
Abu Dhabi, Muscat	GMT + 04:00			
Baku, Tbilisi, Yerevan	GMT + 04:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00

Kabul	GMT + 04:30			
Ekaterinburg	GMT + 05:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Islamabad, Karachi, Tashkent	GMT + 05:00			
Chennai, Mumbai, New Delhi	GMT + 05:30			
Kathmandu	GMT + 05:45			
Almaty, Novosibirsk	GMT + 06:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Astana, Dhaka, Sri Lanka	GMT + 06:00			
Rangoon	GMT + 06:30			
Bangkok, Hanoi, Jakarta	GMT + 07:00			
Krasnoyarsk	GMT + 07:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Irkutsk, Ulaan Bataar	GMT + 08:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Beijing, Chingqing, H. K., Urumqi	GMT + 08:00			
Kuala Lumpur, Perth, Singapore	GMT + 08:00			
Taipei	GMT + 08:00			
Osaka, Seoul, Tokyo	GMT + 09:00			
Yakutsk	GMT + 09:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Adelaide	GMT + 09:30	ˇ	Oct, last Sun, 2:00	Mar, last Sun, 3:00
Darwin	GMT + 09:30			
Brisbane, Guam, Port Moresby	GMT + 10:00			
Canberra, Melbourne, Sydney	GMT + 10:00	ˇ	Oct, last Sun, 2:00	Mar, last Sun, 3:00
Hobart	GMT + 10:00	ˇ	Oct, 1st Sun, 2:00	Mar, last Sun, 3:00
Vladivostok	GMT + 10:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Magadan, Solomon Is.	GMT + 11:00			
Auckland, Wellington	GMT + 12:00	ˇ	Oct, 1st Sun, 2:00	Mar, 3rd Sun, 2:00
Fiji	GMT + 12:00			
Kamchatka	GMT + 12:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Anadyr	GMT + 13:00	ˇ	Mar, last Sun, 2:00	Oct, last Sun, 3:00
Nuku'alofa	GMT + 13:00			

Appendix B – Play Back Utility

Installation (Utility Software/Applications)

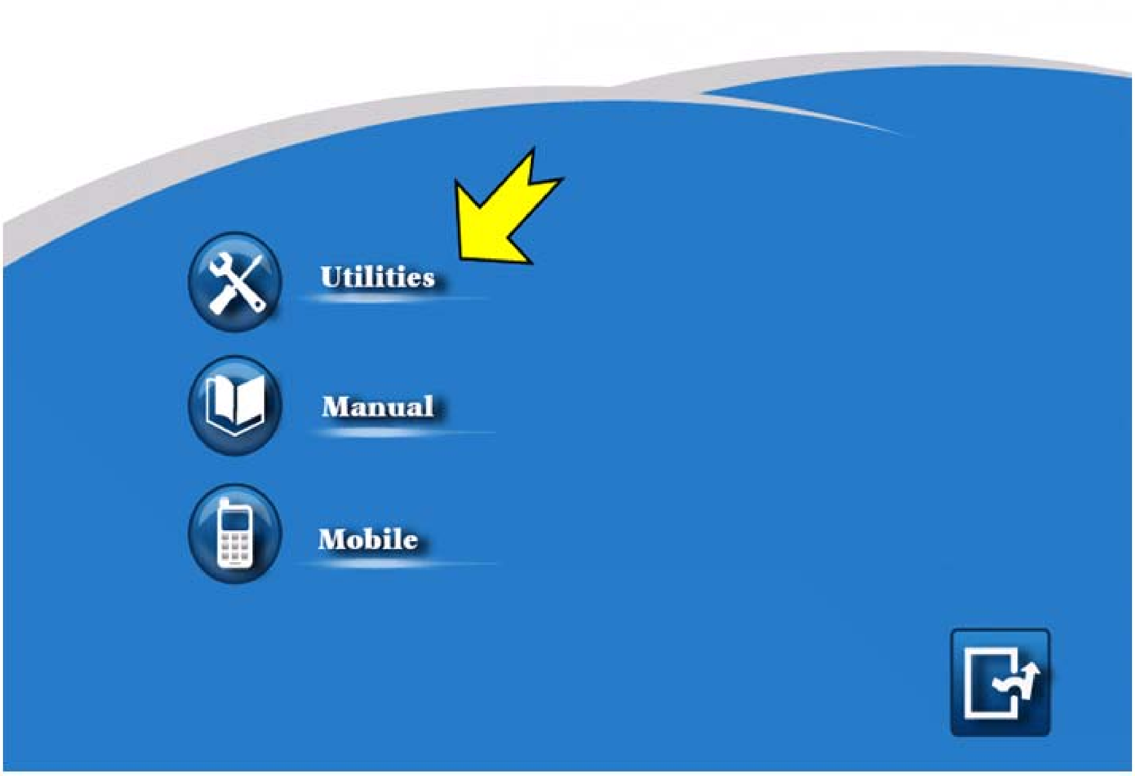
Step1. Insert the Installation CD into the CD-ROM.

Step2. Execute **''Autorun.exe''**. and then click on ''**Utility**'' button.

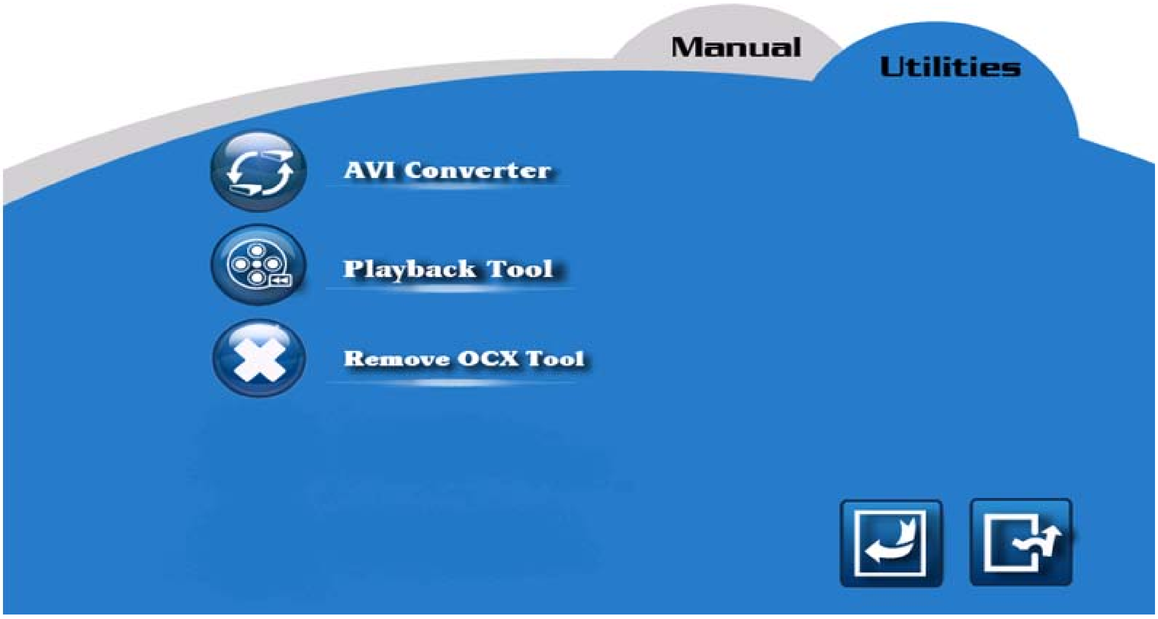
**If your computer can't execute the CD automatically, please click"**"(MY computer) and then click* 

,finally click on "

" icon to execute it.



Step 3. Click  icon to install playback file.



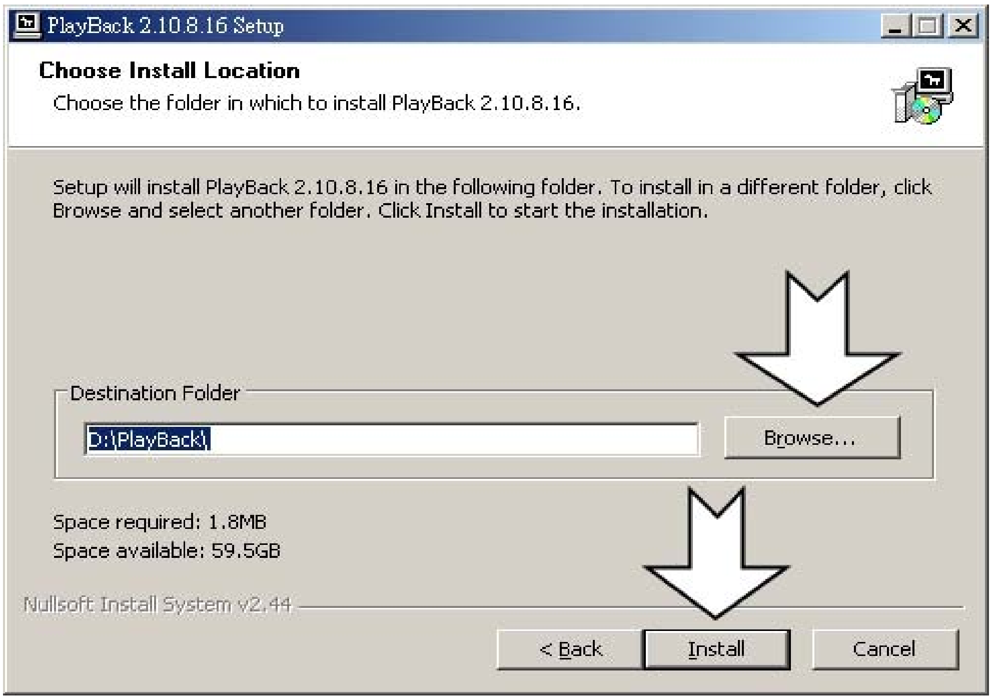
Step 4. The system will display the following setup procedure:

Step 5. Click  button to proceed to install playback software.



Step 6. Click"Install" button to proceed to the installation process.

Or you can click Browse... button to change to file folder.

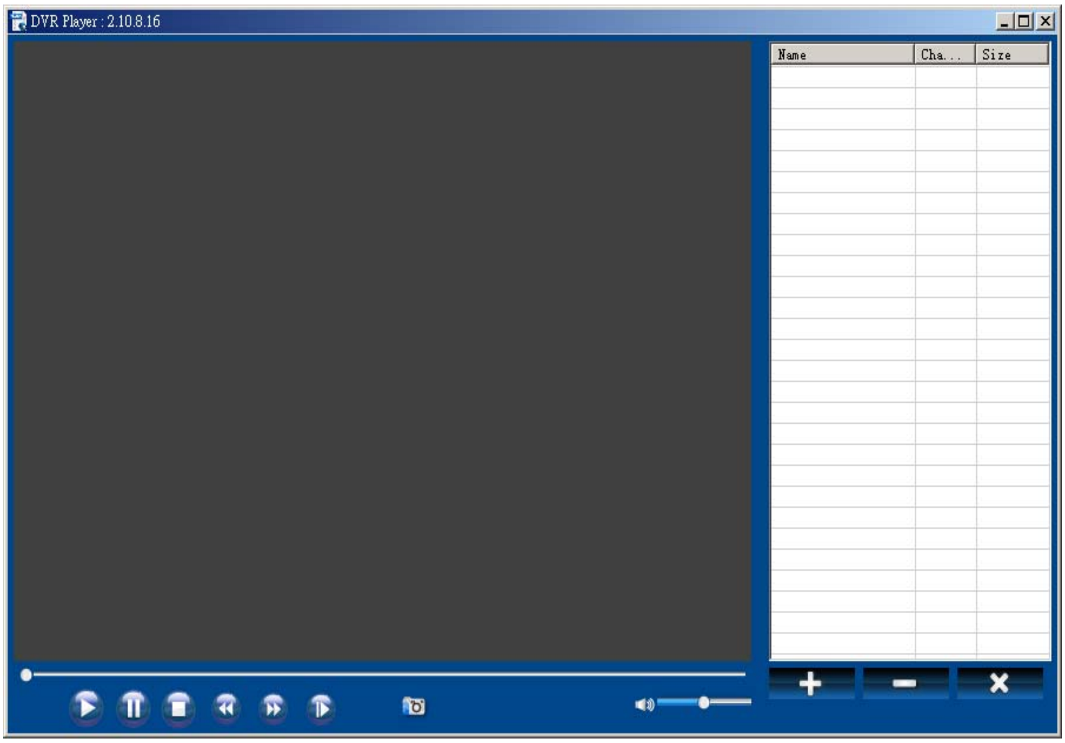


Step 7. After completed installation, Check "Run PlayBack 2.10.8.16" box, and then click

Finish button.



***The Playback main screen will display.**



Playback Player

Select the playback file you desired from the files.



Please select the file with *.264 format or *.nvr.

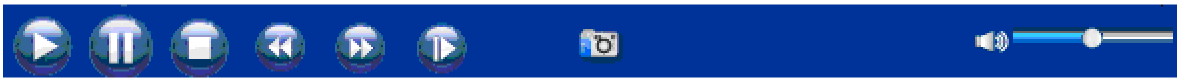
The record file backed-up by U.S.B Device or removable disk is with *.264 format, and DVD Recorder with *.nvr format.

Play & Review Backup File

Double click the record event at the right side of screen to start record file playback.



The button functions from left to right in turn are as follows:



All Functions	
Button	**Functions**
Play	Start playing record file
Pause	Pause the record file playback
Stop	Stop the record file playback
Rewind	Rewind playing the record file at X2, X4, X8 and X16 speeds.
Forward	Forward playing the record file at X2, X4, X8 and X16 speeds.
Frame by Frame	Play the record file frame by frame.
Snapshot	Click the button to capture the record image and save the image to a specified position.
Add	Click the button to add one record file.
Delete	Click the button to delete one record file.
Delete all	Click the button to delete all the record files in the event list.

Appendix C – Sustainable Record Time List

According to Resolution, Video Output, Video Input, Image parameter as well as audio input, the sustainable record time will be different.
Hence, we provide a formula for your reference:

Calculation formula:

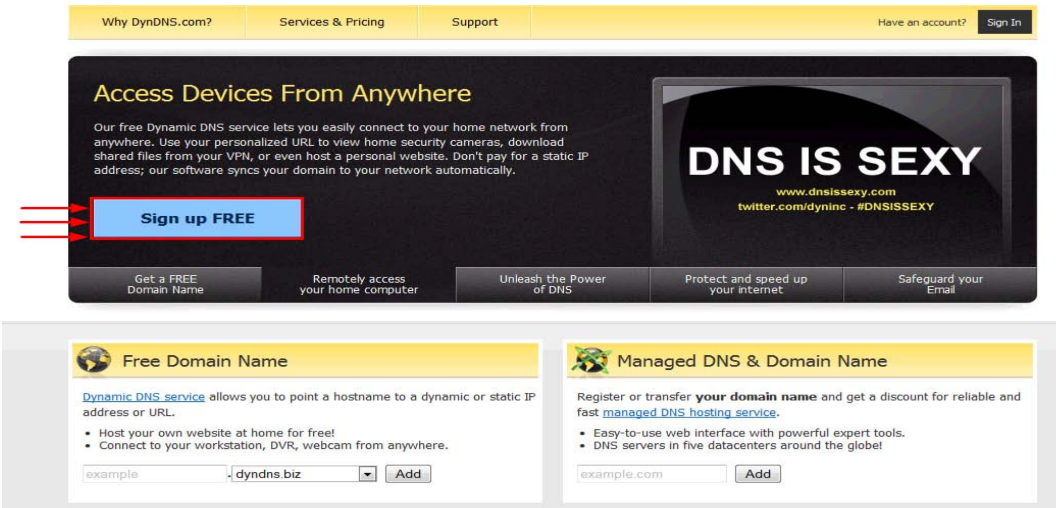
$$\frac{A*1024}{B*24}$$

A = The capacity of HDD
B = The total space was used by HDD per hour.

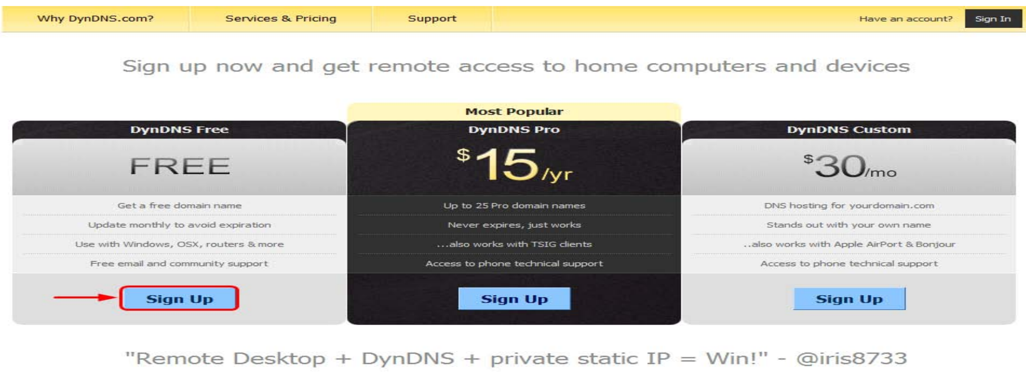
Appendix D – Applying free DDNS from internet

Step 1. Please go to http://www.dyndns.com and Click "Get a free Domain name" button.

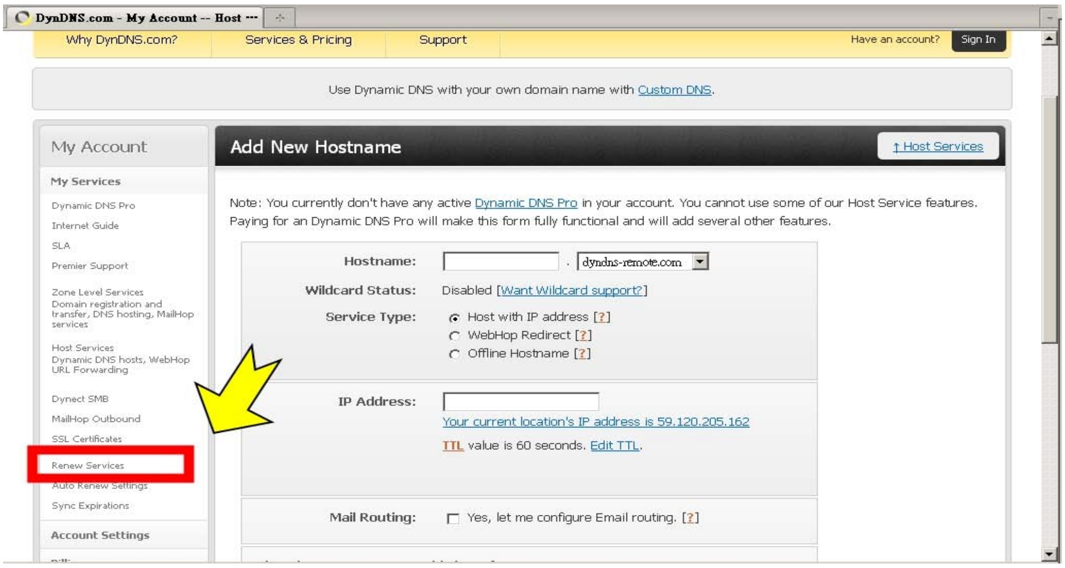
Step 2. Click "Sign up free" icon.



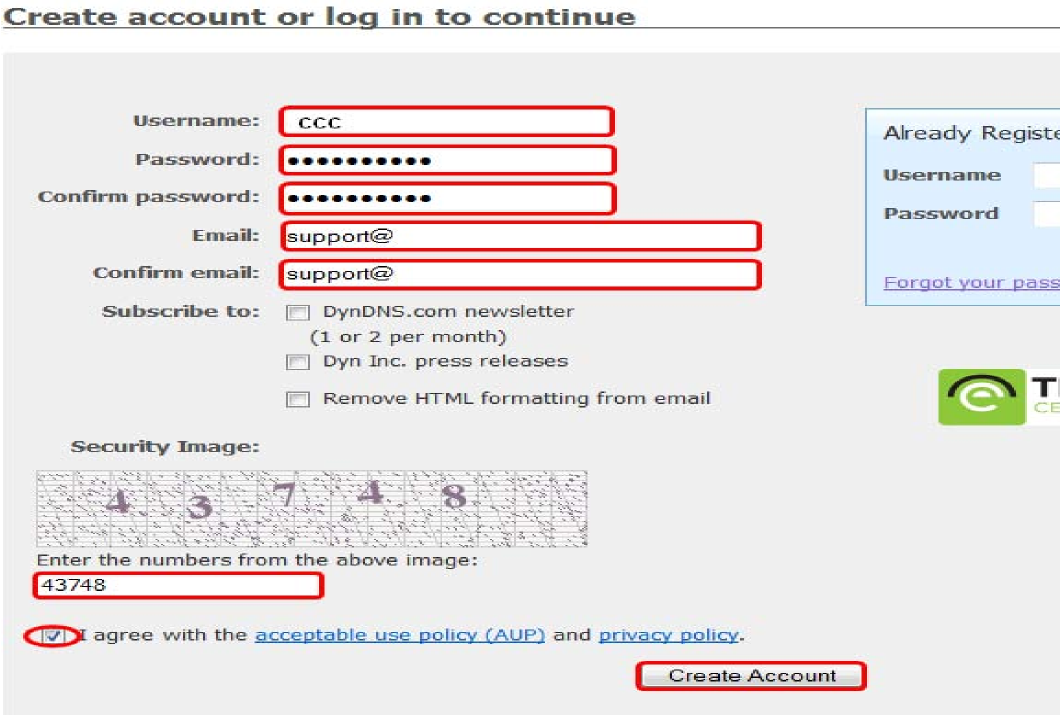
Step3. Choose free sign up



Step 4. Click **" Renew Services"** option, in order to create new account.

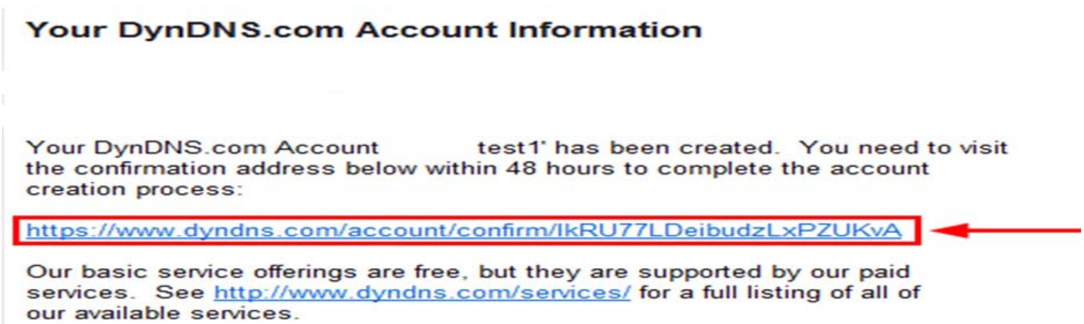


Step 5. Create your own username, password, E-mail and enter the image numbers to create an account



Step 6. After you created your account, the company will sent an e-mail to verify your e-mail account

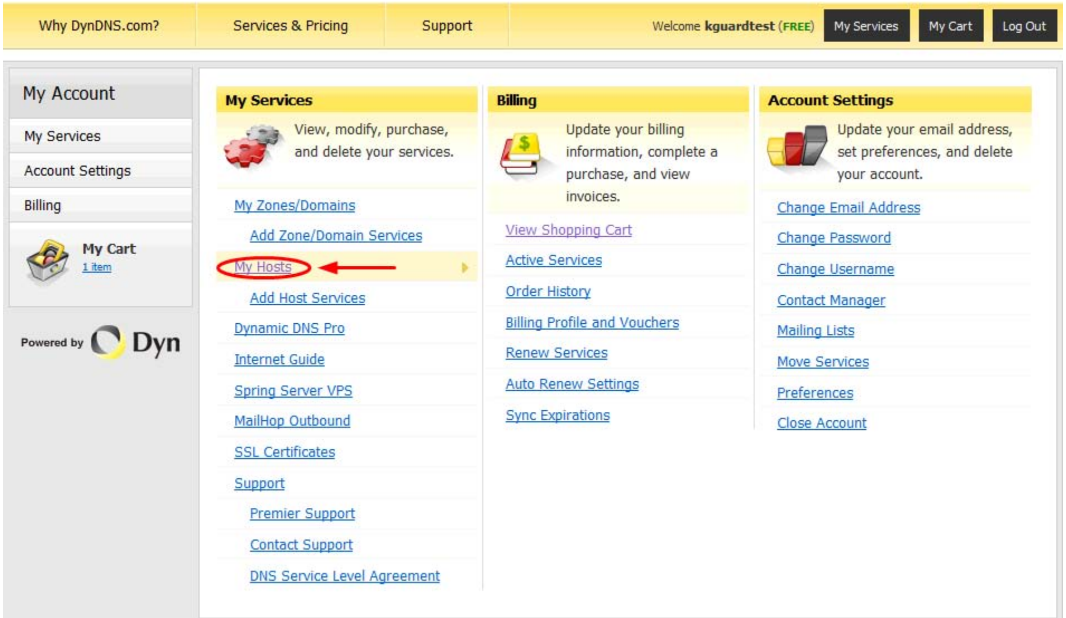
Step 7. Check your e-mail and see if you have received an e-mail from DynDNS.
Click on the link in the e-mail to complete the verification.



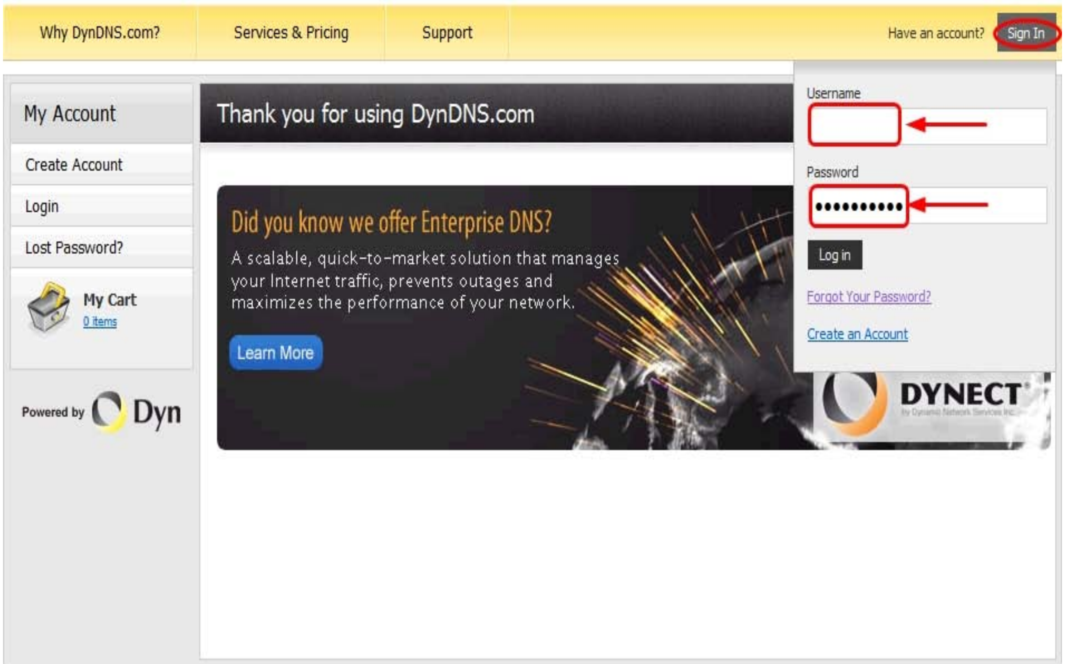


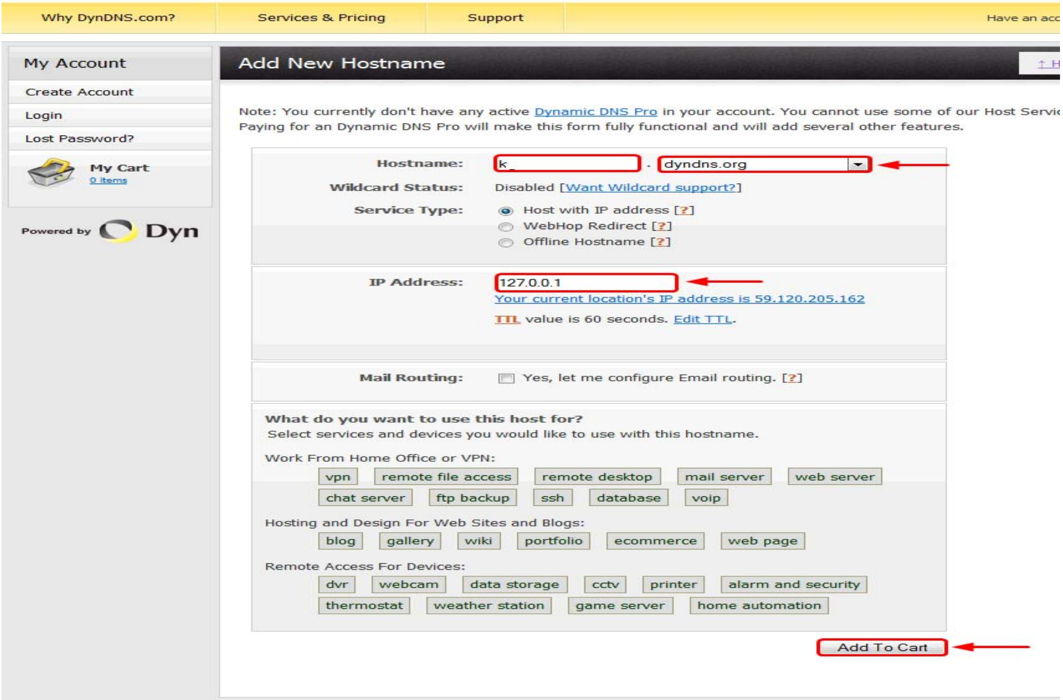
Step 8. Now, go to http://www.dyndns.com and log in your username and password.

Step 9. Click **"MY Account"→ "My Hosts"** option.

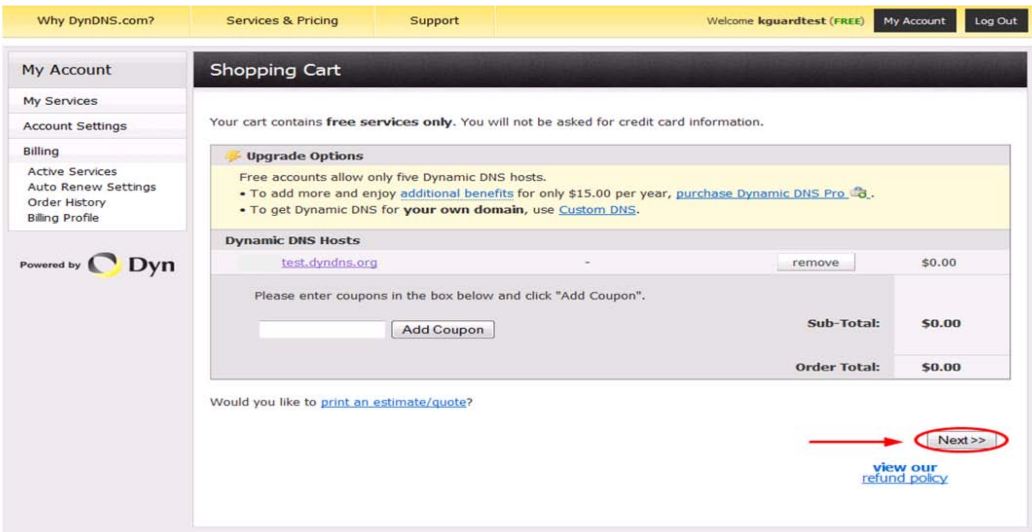


Step 10. key-in your hostname, IP address and then click **"Add To Cart"**.

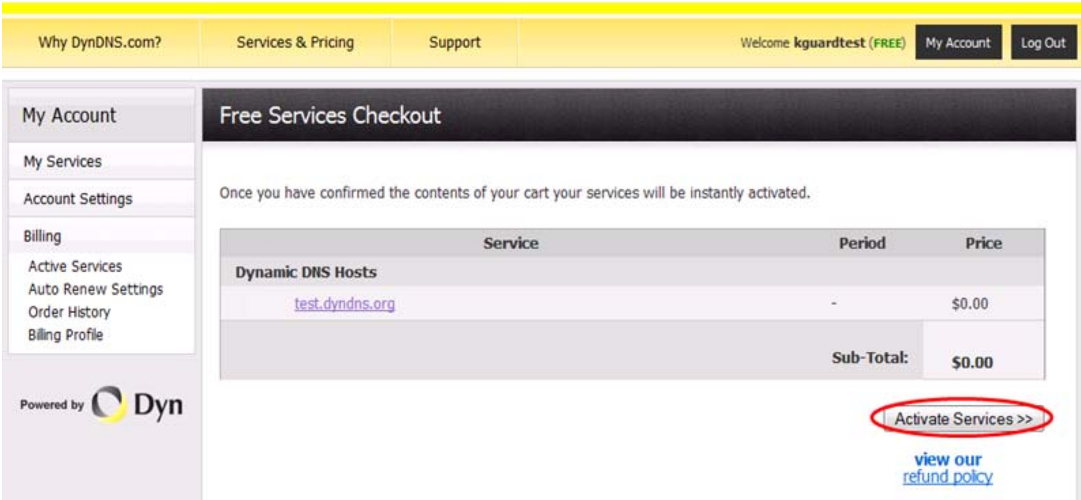




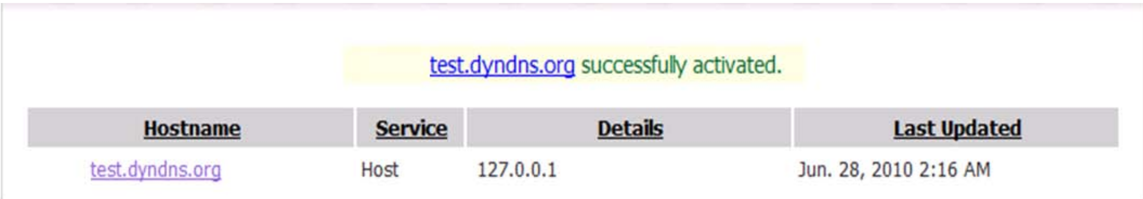
Step 11. Click **"Next"** button.



Step 12. Click **"Activate Services"**

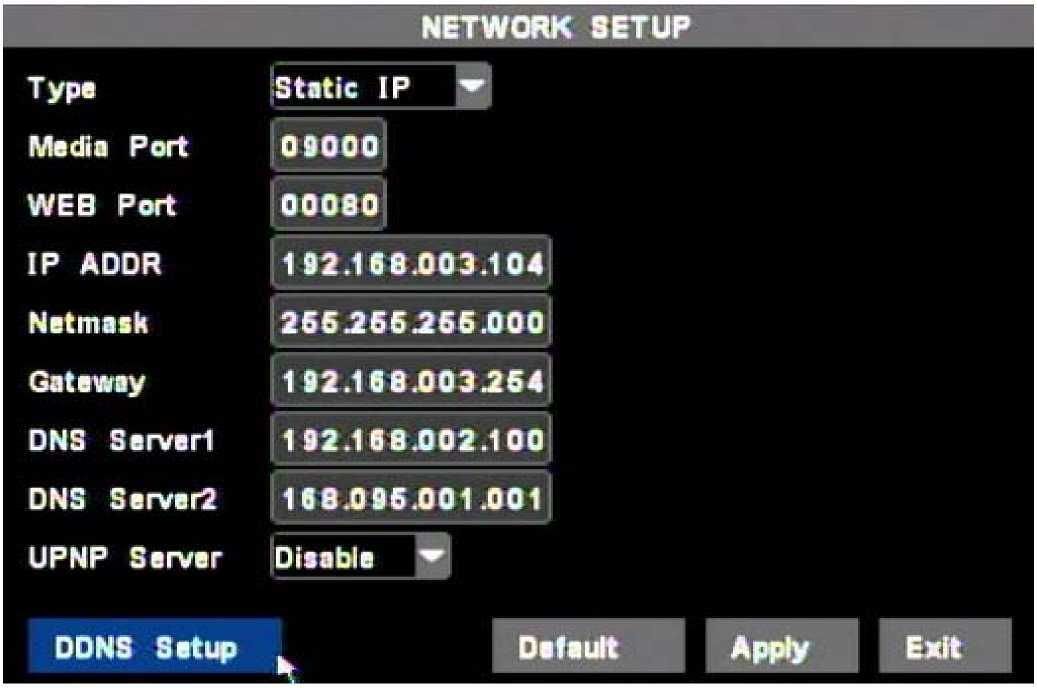


Step 13. When activation is successful, the webpage will display the message:



Step 14. Click on **"Network"** icon.







Step 15. Enable the **DDNS**

Step 16. Choose the **DDNS Server Type**

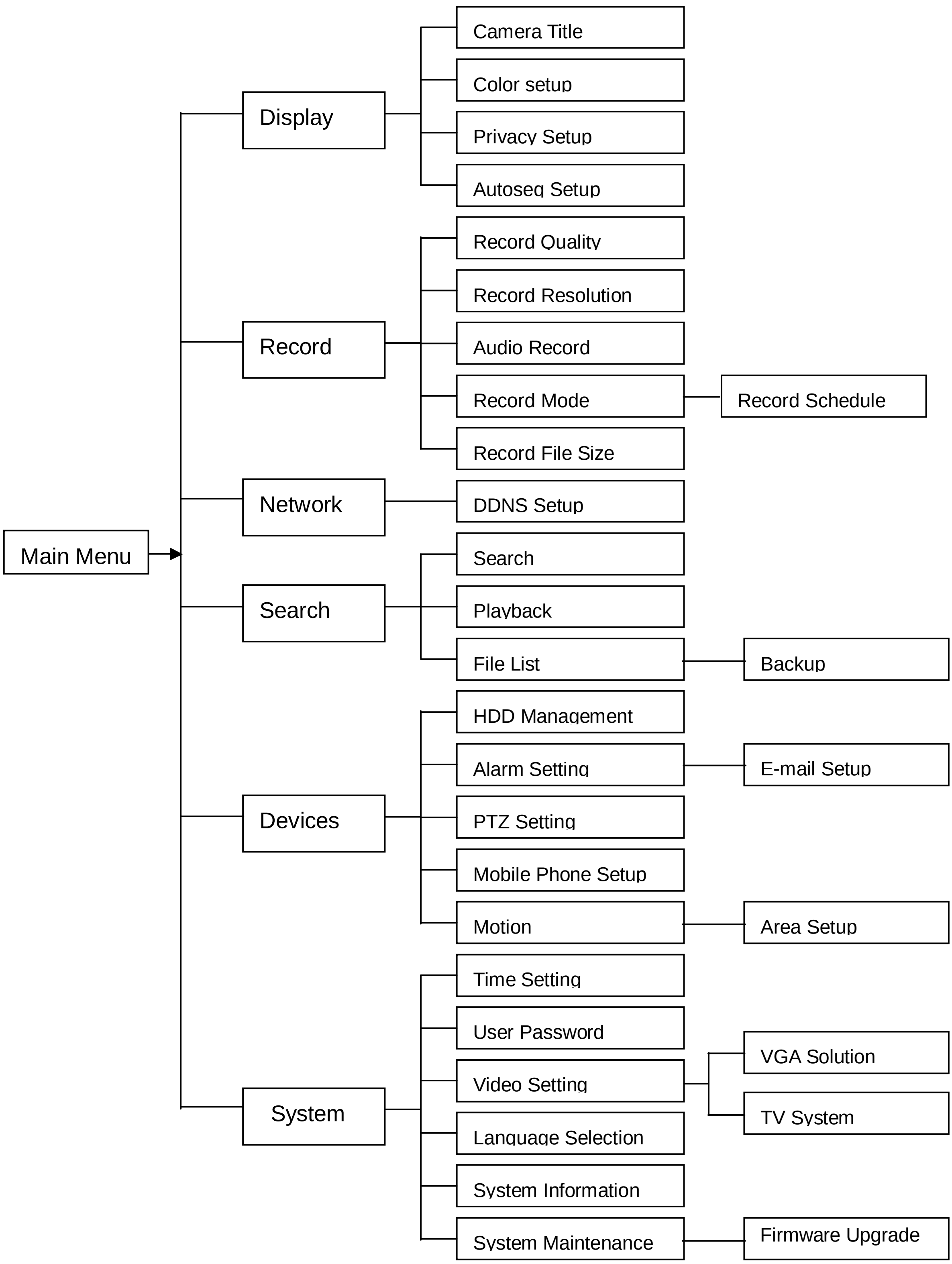
Step 17. Fill out the **Hostname**(you just applied)

Step 18. Fill out the **Username**(you just applied)

Step 19. Fill out the **Password**(you just applied)

Step 20. Click **“Apply”** button to Confirm the settings.

Appendix E – The Structure Diagram Of OSD Display



Appendix F – FAQ Troubleshooting

1. Q: What can I do if the system does not detect the HDD?
A: Check the data and power cables and make sure they are securely connected.
B: For new H.D.D, you have to format it first.
C: Make sure that the power of adaptor is correct, **12V/3A.**

2. Q: We have changed the password but do not remember the new password, how can we access the system?
A: If you forget system password, enter **519070** into the password field to reset the password.

3. Q: We are not getting any video signal on the DVR, what is wrong?
A: Check to make sure the cables are securely connected to the BNC ports on the DVR. You can also try another cable to make sure there is not a problem with the cable. Make sure you have selected the correct video format for your country (NTSC or PAL), is the USA we use NTSC.

4. Q: Can the DVR have problems if it gets too hot, how can I prevent this?
A: Please place the DVR in a place where there is good air circulation and away from high temperatures to increase stability and life of the DVR.

5. Q: My remote control does not work when the DVR is in Live mode but the front panel buttons are working, what is wrong?
A: Make sure nothing is blocking in front of LED on the remote or the receiver on the DVR, if both are ok, check the batteries.

6. Q: Can I use the hard drive from my PC in the DVR?
A: You can if the hard drive is the same type and the size is supported by the DVR. If you install it in the DVR it will be formatted for use in the DVR and the PC will not be able to read it.

7. Q: Do I have to stop recording to playback files on the DVR?
A: No you do not have to stop recording, the DVR will support both functions at the same time.

8. Q: Can I erase files from the hard drive of the DVR?
A: You can not erase individual file, you would need to format the hard drive which will erase all of the files

9. Q: We have attached a PTZ camera but can not control it, what is wrong?
A: Verify that the Protocol, baud rate, address, and other settings on the PTZ camera match the settings you have put into the DVR. Make sure the data cables are attached firmly to the RS485 port on the DVR.

10. Q: Why does the Buzzer keep sounding?
A: Please check to see if motion detection is on and the system has detected motion, make sure the hard drive is being detected and has sufficient space available and that none of your cameras have lost video. You can turn off the buzzer in the Alarm setup option.

11. I can connect to IE Browser, but how can my IE interface is a little bit difference?
A: The reason is the OCX of IE Browser which memorized other version IE interface, so your IE browser was conflict with other version. There's the solution:
1. *Insert included CD into CD-ROM, and then click on **" Remove OCX Tool"** icon, and you will find the file **"RM_SHA_OCX".** Then close the IE browser and click it.*

Appendix G – Email Server Check List

(The information below is for your reference only)

[illegible]	Email address	[illegible]	[illegible]
www.yahoo.com	@yahoo.com.tw	smtp.mail.yahoo.com.tw	pop.mail.yahoo.com.tw
	@yahoo.com	smtp.mail.yahoo.com	pop.mail.yahoo.com
www.google.com	@gmail.com	smtp.gmail.com(465/587)	pop.gmail.com(995)

Appendix H – USB Device Support List

USB 2.0 Device Support Suggestion	
Brand	**Capacity**
Sandisk	4G
Kingston	4G
	8G
	16G
Kingston(DT Mini Slim)	4G
Transend	4G
Kingmax	2G
	8G
UNIS	4G

Appendix I – 3G Mobile Phone Local Service Center

3G Cell phone Support Suggestion	
Brand	**Service Center(Web site)**
Blackberry	http://na.blackberry.com/eng/support/ http://uk.blackberry.com/support/ http://fr.blackberry.com/support/ http://sa.blackberry.com/support/
Nokia	http://europe.nokia.com/support http://www.nokia.ca/get-support-and-software http://www.nokiausa.com/get-support-and-software/product-support
Sony Ericsson	http://www.sony.net/ http://www.sonyericsson.com/cws/cws/home?cc=ar&lc=es http://www.sonyericsson.com/cws/cws/home?cc=ca&lc=en
HTC	http://www.htc.com/us/#/?slide=1 http://www.htc.com/la/
Apple	http://www.apple.com/support/iphone/ http://www.apple.com/support/country/

Appendix J – Mobile Phone support list

Brand	Mobile(OS)	Model
HTC	**Windows Mobile**	8900/Apache/AT&T Pure/HD Diamond/P3600 Trinity/P3600i Trinity/P3650Cruise/P3651Touch Cruise/P4350/P4351/P4500 TyTN/P4550 TyTN 3G/T3333 Touch 2/T4242 Touch Cruise09/T5353Touch Diamond 2/T7377 AT&TTilt 2/T8282 Touch HD/T8285 Touch HD/T8290 Max Touch 4G/Touch/Diamond/Touch Dual/Touch Pro/Touch Pro 2/X7500Advantage/X7510 Advantage/XV6975 Imagio
	Android	Aria/ Desire/Dream/ Droid Eris/ Evo 4G/Hero/Incredible /Legend/ Magic/Tattoo/Wildfire
LG	**Windows Mobile**	CT810 Incite /GM730 Eigen /GM750 /GT810H /GW550 /GW820 eXpo/KS20 /VS750 Fathom
	Android	GT540 Swift / GW620 Eve / KH5200 Andro-1 / LU2300 Optimus Q / VS740 Ally
ACER	**Windows Mobile**	DX650 / DX900 / E100 beTouch / E101 beTouch / M900 / neoTouch / X960
	Android	E110 beTouch / E400 beTouch / Liquid

NOKIA	**Symbian**	3250/5230/5233/5235 Comes With Music/5320 XpressMusic/5500 Sport/5530 XpressMusic/5630 Xpress Music/5700XpressMusic/5730 XpressMusic/5800 XpressMusic/6110 Navigator/6120 classic 6121 classic 6122c/6124 classic/6210 Navigator/6220 Classic 6290/6650 Fold 6720 Classic 6730 classic 6788/6790Mako/ C5/ C6/ E50/ E51/ E52/ E55/ E60/ E61/ E62/E63/ E65/ E66/ E70/ E71/E72/ E73 Mode/E75/E90/N71/N73/N75/N76/N77/N78/N79/N80/N81/N82 N85/N86/N91/ N92/N93/ N95/ N96/ N97/ N97 Mini/ X6
SAMSUNG	**Symbian**	GT i7110 / GT i8510 Innov8 / GT i8910 Omnia / SGH G810 / SGH i450 / SGH i550 / SGH i560 / SGH L870
	Windows Mobile	GT B7300 OmniaLITE/GT B7320 OmniaPRO/GT B7330 OmniaPRO/GT B7610 OmniaPRO/GT B7620 Giorgio Armani/GT C6620/GT C6625 Valencia/GT i8000 Omnia II/SCH i220 Code/SCH i760 /SCH i770 Saga/SCH i910 Omnia/SCH i920 Omnia II/SGH i300 /SGH i600/SGH i607 Blackjack/SGH i617 Blackjack2/SGH I627 Propel Pro/SGH i637, SGH i710/SGH i718/SGH i740/SGH i780 /SGH i900/SGH i908 Omnia/SPH i325 Ace/SPH i350 intrepid/SPH IP830/SPH M7350 OZ Omnia
SONY ERICSSON	**Symbian (S60 v5)**	U1 Satio / U5 Vivaz / U8 Kanna
	Windows Mobile(V.6)	M1 Aspen / X1 Xperia / X2 Xperia
Motorola	**Windows Mobile**	A3000 / A3100 / Q / Q9
	Android	A555 Devour/A955 Droid II/Droid/Droid X/i1/ MB200 Cliq/ MB300/ MB501 Cliq XT/ MB511 Flipout/ Moto XT800/ MT710 ZHILING/ Quench XT3/ XT701 XT720 Motoroi
ASUS	**Windows Mobile**	M10 Nuvifone/ M20 Nuvifone/ P320/ P505/ P525/ P526/ P527/P550/ P552/ P750/ P835
BENQ	**Windows Mobile**	E72 / P51
DELL	**Windows Mobile**	Axim X50
	Android	Mini 3iX / Streak / Thunder
GIGABYTE	**Windows Mobile**	g-Smart i120

	Android	GSmart G1305 Boston
HP	**Windows Mobile**	iPAQ 510 Mobile Messenger / iPAQ HW6500 / iPAQ K3 Glisten
i-MATE	**Windows Mobile**	i9502 Ultimate / i-mate Jamin / i-mate JAQ / i-mate JAQ3/ imate JASJAM / i-mate JASJAR / i-mate K-JAM
Kyocera	**Windows Mobile**	E-4000 Solo
	Android	M6000 Zio
Lenovo	**Windows Mobile**	ET980 / i921
Palm	**Windows Mobile**	Treo 700 / Treo 750 / Treo 800 / Treo 850 Pro
PANTECH	**Windows Mobile**	C810 Duo / C820 Matrix Pro
	Android	IMA600S Sirius
SHARP	**Android**	IS01
TOSHIBA	**Windows Mobile**	G710 / G900 / TG01
VODAFONE	**Windows Mobile**	1231 / VPA Compact IV / VPA III
GARMIN	**Android**	Garminfone
GOOGLE	**Android**	Nexus One
BlackBerry	**BlackBerry**	BlackBerry 8900/ BlackBerry 9000 Bold/ BlackBerry 9100 Pearl (9105 Pearl) /BlackBerry 9630 Tour /BlackBerry 9650 Tour2 /BlackBerry 9700 Onyx (Bold, 9020)/8900/8910/8980/9000/9630/9650/9700/9780/9800
i-Phone	**i-Phone**	Apple iPhone 3G/3GS (OS 3.0 or later) Apple iPhone 4 / iPod touch, iPad
SIEMENS	**Windows Mobile**	SX66

Appendix K – H.D.D support list

H.D.D Support list			
Brand(Seagate)	Model	Capacity(GB)	Cache(M)
Pipeline HD	ST3250312CS	250GB	8M
	ST3320310CS	320GB	8M
	ST3500312CS	500GB	8M
	ST31000322CS	1TB	8M
Barracuda 7200.12	ST3250318AS	250GB	8M
	ST3500418AS	500GB	16M
	ST31000528AS	1TB	32M
Barracuda 7200.10	ST3250310AS	250GB	8M
	ST3320620AS	320GB	16M
Barracuda LP	ST32000542AS	2TB	32M
SV35.3	ST3250310SV	250GB	8M
	ST3500320SV	500GB	32M
	ST3750330SV	750GB	32M
	ST31000340SV	1TB	32M
SV35.4	ST3320410SV	320GB	16M
SV35.5	ST3250311SV	250GB	8M
	ST3500410SV	500GB	16M
	ST31000525SV	1TB	32M
Brand(WD)	Model	Capacity(GB)	Cache(M)
WD-AV	WD2500AVJS	250GB	8M
	WD3200AVJS	320GB	8M
WD AV-GP	WD2500AVVS	250GB	8M
	WD3200AVVS	320GB	8M
	WD5000AVDS	500GB	32M
	WD5000AVVS	500GB	8M
	WD10EVVS	1TB	8M
	WD10EVDS	1TB	32M
	WD15EVDS	1.5TB	32M
	WD20EVDS	2TB	32M
WD Caviar Blue	WD2500AAJB	250GB	8M
	WD2500AAJS	250GB	8M
	WD3200AAJB	320GB	8M
	WD3200AAJS	320GB	8M
WD Caviar Green	WD5000AADS	500GB	32M
	WD10EADS	1TB	32M

WD RE4-GP	WD2002FYPS	2TB	64M
Brand(Hitachi)	**Model**	**Capacity(GB)**	**Cache(M)**
	HDT721032SLA360	320GB	16M
	HDT725032VLA380	320GB	8M
	HDS721010KLA330	1TB	32M
CinemaSta	HCT721075SLA380	750GB	8M
Brand(SAMSUNG)	**Model**	**Capacity(GB)**	**Cache(M)**
	HD502HI	500GB	16M
	HD103SI	1TB	32M